

WATER QUALITY IN OKLAHOMA

2012 INTEGRATED REPORT

PREPARED PURSUANT TO SECTION 303(d) AND SECTION 305(b) OF THE CLEAN WATER ACT

BY

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Acronyms and Definitions

Agencies

ODAFF	Oklahoma Department of Agriculture Food and Forestry
OCC	Oklahoma Conservation Commission
Corporation Commission	Oklahoma Corporation Commission
OSDH	Oklahoma State Department of Health
OSE	Office of the Secretary of Environment
DEQ	Oklahoma Department of Environmental Quality
OWRB	Oklahoma Water Resources Board
Wildlife Department	Oklahoma Department of Wildlife Conservation

Terminologies

303(d)	This section of the Clean Water Act requires each state to identify waters that do not or are not expected to meet applicable Water Quality Standards with technology-based controls alone. States are required to establish a priority ranking for the waters, taking into account the pollution severity and designated uses of the waters. Once identification and priority ranking are completed, states are to develop Total Maximum Daily Loads at a level necessary to achieve the applicable state Water Quality Standards.
304(l)	This section of the Clean Water Act requires each state to identify those waters that fail to meet Water Quality Standards due to toxic pollutants and other sources of toxicity. It also requires the preparation of individual control strategies that will reduce point source discharges of toxic pollutants.
305(b)	This section of the Clean Water Act requires each state to report its water quality on a biennial cycle.
314	This section of the Clean Water Act requires each state to establish a Lake Water Quality Assessment Report. This section provides federal funds for each state to submit a classification of lakes according to trophic condition, develop processes and methods to control sources of pollution and to work with other agencies in restoring the quality of those lakes. Section 314 establishes the guidelines for conducting Clean Lake Studies Phase I and II.
319(h)	This section of the Clean Water Act requires each state to develop a State Assessment Report and a Management Program for Nonpoint Source pollution problems. The Assessment Report is to describe the nature, extent, and effects of Nonpoint Source pollution, the causes and sources of such pollution, and programs and methods used for controlling this pollution.

BMPs	Best Management Practices: A technique that is determined to be the most effective, practical means of preventing or reducing pollutants from nonpoint sources in order to achieve water quality goals.
BOD₅	Biochemical Oxygen Demand (5-Day): The oxygen used in meeting the metabolic needs of aerobic microorganisms in water rich in organic matter -- called also biological oxygen demand; the test requires five days of laboratory time and results may vary when toxic substances are present which effect bacteria.
CBOD₅	Carbonaceous Biochemical Oxygen Demand (5-Day): That portion of the BOD that is not due to oxidation of nitrogenous compounds.
CTSI	Carlson's Trophic State Index ($CTSI = 9.81 \ln[chl-\alpha] + 30.6$).
CWA	Clean Water Act: Public Law 92-500 enacted in 1972 provides for a comprehensive program of water pollution control; two goals are proclaimed in this Act: (1) to achieve swimmable, fishable waters wherever attainable by July 1, 1983, and (2) by 1985 eliminate the discharge of pollutants into navigable waters.
DDT	Dichlorodiphenyltrichloroethane: A colorless odorless water-insoluble crystalline insecticide $C_{14}H_9Cl_5$ that tends to accumulate in ecosystems and has toxic effects on many vertebrates.
DO	Dissolved Oxygen: The amount of oxygen dissolved in water. DO concentrations range from a few parts per million up to about 10 ppm for most Oklahoma streams. A level of DO around 7 ppm is essential to sustain desired species of game fish. If DO drops below 5 ppm the danger of a fish kill is present and malodorous conditions will result. The major factors determining DO levels in water are temperature, atmospheric pressure, plant photosynthesis, rate of aeration and the presence of oxygen demanding substances such as organic wastes. In addition to its effect on aquatic life, DO also prevents the chemical reduction and subsequent movement of iron and manganese from the sediments and thereby reduces the cost of water treatment.
µg/L	Microgram/liter.
NPDES	National Pollutant Discharge Elimination System: A permit program established by Section 402 of the Clean Water Act. This program regulates discharges into the nation's water from point sources, including municipal, industrial, commercial and certain agricultural sources.
NTU	Nephelometric Turbidity Units: The measurement of the extent or degree of cloudiness by means of a nephelometer (an instrument for determining the concentration or particle size of suspensions by means of transmitted or reflected light).
OKWBID	Oklahoma Waterbody Identification number: A unique identifier assigned to each waterbody in Oklahoma. For a complete description of OKWBIDs, please see Appendix A.
PCB(s)	Polychlorinated Biphenyl(s): Any of several compounds that are produced by replacing hydrogen atoms in biphenyl with chlorine, have various industrial applications, and are poisonous environmental pollutants which tend to accumulate in animal tissues.
pH	The negative logarithm of the effective hydrogen ion concentration or hydrogen-ion activity in gram equivalents per liter used in expressing both acidity and alkalinity on

	a scale whose values run from 0 to 14 with 7 representing neutrality, numbers less than 7 increasing acidity, and numbers greater than 7 increasing alkalinity.
Playa Lakes / Prairie Potholes	Shallow, small, ephemeral to permanent closed basin lake, typically found in high plains and deserts.
TDS	Total Dissolved Solids: The complete amount of solid matter dissolved in water or wastewater.
TMDL	Total Maximum Daily Load: The sum of individual wasteload allocations for point sources, safety, reserves, and loads from nonpoint source and natural backgrounds.
WLA	Wasteload Allocation: The assignment of target loads to point sources so as to achieve Water Quality Standards in the most efficient manner. The wasteload allocation is designed to allocate or allow certain quantities, rates or concentration of pollutants discharged from contributing point sources which empty their effluent into the same river segment. The purpose of the wasteload allocation is to eliminate an undue "wasteload burden" on a given stream segment.
WQS	Water Quality Standards: rules which establish classifications of uses of waters of the State, criteria to maintain and protect such classifications, and other standards or policies pertaining to the quality of such waters. The purpose of the Standards is to promote and protect as many beneficial uses as are attainable and to assure that degradation of existing quality of waters of the State does not occur. These rules can be found at OAC 785:45.

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Executive Summary/Overview

Clean Water Act (CWA) Section 303(d) Requirements

The 1972 amendments to the Clean Water Act include Section 303(d). The regulations implementing Section 303(d) require states to develop lists of water bodies that do not meet Water Quality Standards and to submit updated lists to the U. S. Environmental Protection Agency (EPA) every two years. Water quality standards, as defined in the Code of Federal Regulations, include beneficial uses, water quality objectives (narrative and numerical) and anti-degradation requirements. The EPA is required to review impaired water body lists submitted by each state and approve or disapprove all or part of the list.

For waterbodies on the 303(d) list, the Clean Water Act requires that a pollutant load reduction plan or TMDL be developed to correct each cause of impairment. TMDLs must document the nature of the water quality impairment, determine the maximum amount of a pollutant which can be discharged and still meet standards, and identify allowable loads from the contributing sources. The elements of a TMDL include a problem statement, description of the desired future condition (numeric target), pollutant source analysis, load allocations, description of how allocations relate to meeting targets, and margin of safety.

CWA Section 305(b) Requirements

The 1972 amendments to the Clean Water Act also include Section 305(b). The regulations implementing Section 305(b) require states to develop an inventory of the water quality of all water bodies in the state and to submit an updated report to the EPA every two years. This process was established as a means for the EPA and the U. S. Congress to determine the status of the nation's waters.

The 305(b) Report also includes: an analysis of the extent to which water bodies comply with the “fishable/swimmable” goal of the CWA; an analysis of the extent to which the elimination of the discharge of pollutants and a level of water quality achieving the “fishable/swimmable” goal have been or will be attained, with recommendations of additional actions necessary to achieve this goal; an estimate of a) the environmental impact, b) the economic and social costs, c) the economic and social benefits, and d) the estimated date of such achievement; and finally, a description of the nature and extent of nonpoint sources of pollutants, and recommendations of programs needed to control them- including an estimate of the costs of implementing such programs.

Integrated Report Guidance

The US Environmental Protection Agency (EPA) issued guidance (EPA, 2005) for the development of an Integrated Water Quality Monitoring and Assessment Report (Integrated Report) by the states. This guidance recommends that states integrate their Water Quality Inventory Report (Section 305(b) of the CWA) and their Impaired Waterbodies List (Section 303(d) of the CWA). The Integrated Report is intended to provide an effective tool for maintaining high quality waters and improving the quality of waters that do not attain Water Quality Standards. The Integrated Report will also provide water resources managers and citizens with detailed information regarding the following:

- Delineation of water quality assessment units providing geographic display of assessment results
- Progress toward achieving comprehensive assessment of all waters
- Water quality standards attainment status
- Methods used to assess Water Quality Standards attainment status
- Additional monitoring needs and schedules
- Pollutants and watersheds requiring Total Maximum Daily Loads (TMDLs)
- Pollutants and watersheds requiring alternative pollution control measures
- Management strategies (including TMDLs) under development to attain Water Quality Standards
- TMDL development schedules

The Integrated Report will streamline water quality reporting since data sources and assessment methods will be described in detail, providing a sound technical basis for assessment decisions. Assessment results will also be conveyed in a spatial context, allowing a clearer picture of water quality status and issues. Monitoring needs and

schedules will be described, facilitating the articulation of monitoring priorities and identifying opportunities for cooperation with other agencies and watershed partners. TMDL needs and schedules will be defined to convey plans for water quality improvements. The public participation aspects will provide opportunities for data submittal and open discussion of water quality assessment methods and results.

The Integrated Report combines the non-regulatory requirements of the Water Quality Inventory Report (305b) with regulation driven List of Impaired Waterbodies (303d) (i.e., only the latter mandates TMDL development). Successful integration into a single report requires a careful meshing of requirements and procedures. In general, Category 5 of the Integrated Report satisfies EPA reporting requirements under Section 303d (Impaired Waterbodies) and combined with the remaining Categories document assessment under Section 305b (Water Quality Inventory). Therefore, the regulatory requirements (i.e., EPA approval and adoption; public participation, etc.) for 303d impaired waterbodies listing only apply to Category 5 of the Integrated Report.

The methods used to develop the 2012 Integrated Report (and subsequent Reports) are described in the Continuing Planning Process (CPP). One goal of the CPP is to provide an objective and scientifically sound waterbody assessment listing methodology including:

- A description of the data that the State will use to assess attainment of surface Water Quality Standards
- The quality assurance aspects of the data
- A detailed description of the methods used to evaluate Water Quality Standards attainment
- The placement of waterbodies in one of 5 Categories:

Category 1 - Attaining the water quality standard and no use is threatened.

Waterbodies listed in this category are characterized by data and information that meet the requirements of the CPP to support a determination that the water quality standard is attained and no use is threatened. Consideration will be given to scheduling these waterbodies for future monitoring to determine if the water quality standard continues to be attained.

Category 2 - Attaining some of the designated uses; no use is threatened; and insufficient or no data and information is available to determine if the remaining uses are attained or threatened.

Waterbodies listed in this category are characterized by data and information which meet the requirements of the CPP to support a determination that some, but not all, uses are attained and none are threatened. Attainment status of the remaining uses is unknown because there is insufficient or no data or information. Monitoring shall be scheduled for these waterbodies to determine if the uses previously found to be in attainment remain in attainment, and to determine the attainment status of those uses for which data and information was previously insufficient to make a determination.

Category 3 - Insufficient or no data and information to determine if any designated use is attained.

Waterbodies are listed in this category when the data or information to support an attainment determination for any use is not available, consistent with the requirements of the CPP. To assess the attainment status of these waterbodies, supplementary data and information shall be obtained, or monitoring shall be scheduled as needed.

Category 4 - Impaired or threatened for one or more designated uses but does not require the development of a TMDL.

4A - TMDL has been completed.

Waterbodies are listed in this subcategory once all TMDL(s) have been developed and approved by EPA that, when implemented, are expected to result in full attainment of the standard. Where more than one pollutant is associated with the impairment of a waterbody, the waterbody will remain in Category 5 until all TMDLs for each pollutant have been completed and approved by EPA. Monitoring shall be scheduled for these waterbodies to verify that the water quality standard is met when the water quality management actions needed to achieve all TMDLs are implemented.

4B - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.

Consistent with the regulation under 130.7(b)(i),(ii), and (iii), waterbodies are listed in this subcategory when other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters. These requirements must be specifically applicable to the particular water quality problem. Monitoring shall be scheduled for these waterbodies to verify that the water quality standard is attained as expected.

4C - Impairment is not caused by a pollutant.

Waterbodies are listed in this subcategory if the impairment is not caused by a pollutant. Scheduling of these waterbodies for monitoring to confirm that there continues to be no pollutant-caused impairment and to support water quality management actions necessary to address the cause(s) of the impairment, shall be considered.

Category 5 - The water quality standard is not attained. The waterbody is impaired or threatened for one or more designated uses by a pollutant(s), and requires a TMDL.

This category constitutes the Section 303(d) list of waters impaired or threatened by a pollutant(s) for which one or more TMDL(s) are needed. A waterbody is listed in this category if it is determined, in accordance with the CPP, that a pollutant has caused, is suspected of causing, or is projected to cause an impairment. Where more than one pollutant is associated with the impairment of a single waterbody, the waterbody will remain in Category 5 until TMDLs for all pollutants have been completed and approved by EPA. For waterbodies listed in this category, monitoring schedules shall be provided that describe when data and information will be collected to support TMDL establishment and to determine if the standard is attained. While the waterbody is being monitored for a specific pollutant to develop a TMDL, the watershed shall also be monitored to assess the attainment status of other uses. A schedule for the establishment of TMDLs for all waters in Category 5 shall be submitted. This schedule shall reflect the priority ranking of the listed waters. Category 5 waterbodies are further divided into the following subcategories:

5A – TMDL is underway or will be scheduled.

5B – A review of the Water Quality Standards will be conducted before a TMDL is scheduled.

5C – Additional data and information will be collected before a TMDL or review of the Water Quality Standards is scheduled.

The CPP will provide a companion to the 2012 Integrated Report. It is anticipated that this will be a living document and will be modified, as appropriate, to accompany subsequent Integrated Reports.

Oklahoma's comprehensive waterbody category list is available in Appendix B. Category 5 waterbodies can be viewed exclusively in Appendix C.

Synopsis

During the 2011/2012 reporting cycle, there were a total of 4,203 waterbodies delineated into the Oklahoma Assessment Database (ADB). These waters include approximately 621,050 lake acres, and 32,968 river and stream miles, of which approximately 517 miles from the border with the State of Texas.

The water quality data used in this report was collected by the Oklahoma Conservation Commission (OCC), Oklahoma Department of Environmental Quality (DEQ), Oklahoma Corporation Commission (Corp. Comm.), Oklahoma Water Resources Board (OWRB), United States Geological Survey, City of Tulsa, Cherokee Nation, and citizens of the State. Only data collected prior to April 30, 2011 was utilized for this report.

Data used in this report came from several sources, including the *Toxics Monitoring Survey of Oklahoma Reservoirs* (OSDH, 1995), *Nonpoint Source Pollution Assessment Report (Section 319(h))* (OCC, 1988, 1994), *Clean Lakes Programs (Section 314)* (OCC & OWRB), *Lake Water Quality Assessment Report* (OCC & OWRB, 1994), *The Water Quality of Oklahoma 2010 Integrated Report* (DEQ, 2010), *Data Gaps Monitoring Projects* (OCC 2002, 2003), *Beneficial Use Monitoring Program*, *Rotating Basin Monitoring Program*, intensive and rapid bio-assessment surveys, Historical data and assessments (prior to May 1, 2006) were only used when insufficient current data was available to assess a waterbody.

The State considers data gathered by interested citizens of the State of Oklahoma to be an important part of the water quality assessment process. Blue Thumb volunteers collect water quality samples and deliver those samples to water quality professionals for analysis and assessment. For more information on Blue Thumb, contact the Oklahoma Conservation Commission.

Additional monitoring will allow the State agencies to refine and modify the descriptions of the quality of the State's waters. This report reflects water quality determinations made in the past and such determinations will be confirmed or modified, as additional monitoring data becomes available. Where some waterbodies are indicated to be impaired, and suspected cause of impairment is listed, this information is also subject to confirmation or modification based on additional studies and evaluation by State agencies.

Table 1 shows the size and number of lakes in the State of Oklahoma designated as one of the five available categories outlined in the Integrated List Guidance above, while Table 2 does the same for river and stream miles.

TABLE 1. LAKE CATEGORY SUMMARY

Category	Size (Acres)	Number of Waterbodies
1	0	0
2	93,225	31
3	22,628	273
4A	4,100	1
4B	0	0
4C	0	0
5A	500,748	120
5B	0	0
5C	349	4

TABLE 2. RIVER AND STREAM CATEGORY SUMMARY

Category	Size (Miles)	Number of Waterbodies
1	48	1
2	2,429	216
3	20,061	2,939
4A	1,879	83
4B	0	0
4C	0	0
5A	7,769	431
5B	89	9
5C	692	95

Table 3 details the attainment status of each designated beneficial use assigned to lake acres in Oklahoma, while Table 4 does the same for river and stream miles. Each beneficial use for a waterbody must have only one attainment status associated with that use: supporting, not supporting, insufficient information, or not assessed (no information). The methodology for assigning the attainment status of a beneficial use of a waterbody is outlined in the Assessment Methodology and Summary Data section of this report.

TABLE 3. LAKE BENEFICIAL USE SUPPORT SUMMARY

Use	Lake Acres				
	Total Size	Size Fully Supporting	Size Not Supporting	Size Not Assessed	Size with Insufficient Info
Aesthetic	621,050	365,209	163,815	22,472	69,554
Agriculture	612,360	563,065	21,701	22,787	4,807
Fish Consumption	621,050	0	122,581	498,469	0
Warm Water Aquatic Community	621,050	3,579	489,850	22,481	105,140
Navigation	84,440	84,440	0	0	0
Primary Body Contact Recreation	621,050	243,533	20,900	22,822	333,795
Public and Private Water Supply	571,723	128,381	68,802	11,177	363,363

TABLE 4. RIVER AND STREAM BENEFICIAL USE SUPPORT SUMMARY

USE	River Miles				
	Total Size	Size Fully Supporting	Size Not Supporting	Size Not Assessed	Size with Insufficient Info
Aesthetic	32,940	5,727	243	17,872	9,098
Agriculture	32,871	7,702	3,129	18,316	3,724
Emergency Water Supply	1,602	1,602	0	0	0
Fish Consumption	32,870	1,564	1,570	29,004	732
Cool Water Aquatic Community Subcategory	1,608	363	510	549	185
Habitat Limited Aquatic Community Subcategory	930	70	117	636	107
Trout Fishery	34	0	1	24	9
Warm Water Aquatic Community Subcategory	30,397	3,325	5,566	16,181	5,325
Navigation	214	214	0	0	0
Primary Body Contact Recreation	31,620	682	7,353	21,881	1,704
Public and Private Water Supply	14,855	1,578	279	6,628	6,370
Secondary Body Contact Recreation	1,368	81	111	924	252

Table 5 shows the number of lake acres impaired by specific pollutant and Table 6 shows the same for the number of river and stream miles.

TABLE 5. LAKE ACRES IMPAIRED BY SPECIFIC POLLUTANT

Cause	Size (Acres)
Turbidity	382,419
Dissolved Oxygen	176,664
Color	141,797
Mercury	84,259
Chlorophyll- α	68,352
pH	43,692
Lead	38,772
Phosphorus (Total)	29,351
Enterococcus	20,900
Chloride	19,224
Sulfates	2,477

TABLE 6. RIVER AND STREAM MILES IMPAIRED BY SPECIFIC POLLUTANT

Impairment	Size (Miles)
Enterococcus	6,964
Escherichia coli	4,136
Turbidity	2,775
Dissolved Oxygen	2,106
Sulfates	1,955
Lead	1,708
Chloride	1,678
Total Dissolved Solids	1,541
Fishes Bioassessments	1,099
pH	775
Benthic Macroinvertebrate Bioassessments	563
Selenium	552
Sedimentation/Siltation	352
Oil and Grease	214
Copper	175
Thallium	107
Zinc	99
Total Phosphorus	95
Silver	82
Nitrates	63
Ammonia	58
Cadmium	44
Chlorpyrifos	42
DDT	30
Toxaphene	30
Diazinon	11
Dieldrin	10
Arsenic	6
Chromium (total)	6
Barium	4

Table 7 shows the number of lake acres impaired by potential sources, and Table 8 shows the number of river and stream miles impaired by potential sources.

TABLE 7. LAKE ACRES IMPAIRED BY POTENTIAL SOURCE

Potential Source	Size (Acres)
Source Unknown	504,778
Mine Tailings	38,322
Rangeland Grazing	34,348
Wildlife Other than Waterfowl	34,348
Grazing in Riparian or Shoreline Zones	29,316
Natural Sources	18,249
Wastes from Pets	17,716
Animal Feeding Operations	9,476
Impacts from Land Application of Wastes	9,476
Sources Outside State Jurisdiction or Borders	9,476
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	5,064
Petroleum/Natural Gas Activities (Legacy)	35
Silviculture Harvesting	25

TABLE 8. RIVER AND STREAM MILES IMPAIRED BY POTENTIAL SOURCE

Potential Source	Size (Miles)
Source Unknown	9,924
Grazing in Riparian or Shoreline Zones	6,812
Rangeland Grazing	6,613
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	6,400
Wildlife other than Waterfowl	6,328
Wastes from Pets	4,995
Residential Districts	4,672
Highway/Road/Bridge Runoff (Non-construction Related)	3,504
Municipal Point Source Discharges	3,361
Non-Irrigated Crop Production	3,166
Impacts from Land Application of Wastes	2,830
Petroleum/Natural Gas Activities (Legacy)	2,125
Total Retention Domestic Sewage Lagoons	1,052
Agriculture	899
Permitted Runoff from Confined Animal Feeding Operations (CAFOs)	664
Animal Feeding Operations (NPS)	662
Clean Sediments	427
Other Spill Related Impacts (Recent Spills)	364
Natural Sources	271
Landfills	251
Industrial Point Source Discharge	239

Potential Source	Size (Miles)
Atmospheric Deposition - Toxics	220
Atmospheric Deposition - Acidity	209
Impacts from Abandoned Mine Lands (Inactive)	196
Mine Tailings	163
Sources outside State Jurisdiction or Borders	163
Municipal (Urbanized High Density Area)	160
Impacts from Hydrostructure Flow Regulation/Modification	155
Discharges from Municipal Separate Storm Sewer Systems (MS4)	102
Silviculture Harvesting	67
Dredging (E.g., for Navigation Channels)	67
Land Application of Wastewater Biosolids (Non-agricultural)	40
Leaking Underground Storage Tanks	28
Spills from Trucks or Trains	17
Discharges from Biosolids (SLUDGE) Storage, Application or Disposal	17
Surface Mining	14
CERCLA NPL (Superfund) Sites	12
Releases from Waste Sites or Dumps	11
Irrigated Crop Production	10
Acid Mine Drainage	8

Statewide probabilistic estimates of fish and macroinvertebrate communities in rivers and streams are depicted in Table 9 and Table 10, respectively. A description of the State of Oklahoma's probabilistic monitoring program can be found in Appendix F of this report. The full report can be found on the OWRB website at:

http://www.owrb.ok.gov/studies/reports/reports_pdf/REMAP-OKStreamRiver_ProbMonitorNetwork.pdf

TABLE 9. STATEWIDE PROBABILISTIC ASSESSMENT OF FISH IN RIVERS AND STREAMS

Resource	Unit	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	Fish	Good	7,034	95% ±8%	6,499	7,629
Rivers/Streams	Miles	Fish	Fair	4,200	95% ±8%	3,864	4,536
Rivers/Streams	Miles	Fish	Poor	2,448	95% ±8%	2,252	2,644

TABLE 10. STATEWIDE PROBABILISTIC ASSESSMENT OF MACROINVERTEBRATES IN RIVERS AND STREAMS

Resource	Unit	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	Macroinvertebrates	Good	7,005	95% ±8%	6,445	7,565
Rivers/Streams	Miles	Macroinvertebrates	Fair	4,608	95% ±8%	4,239	4,977
Rivers/Streams	Miles	Macroinvertebrates	Poor	2,026	95% ±8%	1,864	2,188

Surface Water Quality

Oklahoma's Water Quality Standards (WQS) are set forth under statutory authority of the OWRB authorized under 82 O.S. § 1085.30. Under these statutes, OWRB "is required to set Water Quality Standards which are practical and in the best public interest and to classify the State's waters with respect to their best present and future uses. These WQS are designed to enhance the quality of the waters, to protect their beneficial uses, and to aid in the prevention, control and abatement of water pollution in the State of Oklahoma" (OWRB, 2006). The WQS have established designated beneficial uses and standards for all of Oklahoma's waters.

The overall support and attainment of the "fishable/swimmable" goals of the CWA is based upon "total waters." The EPA requires all states to report their attainment of the goals of the CWA based on total waters. Relying solely upon this portrayal probably overly inflates estimates of the impaired and threatened conditions of the State's waters since monitoring efforts are typically focused on known problem areas. It would be too cost prohibitive to assess all of the waters within the State. Therefore, all assessment work performed in the State is conducted in a manner that will best utilize available funding resources. For lake total water reporting, the acreage includes Natural Resource Conservation Service (NRCS) (formerly the Soil Conservation Service) assisted farm ponds. Oklahoma lists approximately 1,041,884 total lake acres for the State. Of this number, 330,000 acres comprise approximately 220,000 NRCS assisted farm ponds. These farm ponds are not included in EPA's total water database. Although not considered as "significant lakes," Oklahoma considers them as important natural resources for the agricultural and rural communities. These farm ponds provide a significant amount of water for livestock, a source of primary recreation for many, used as flood control devices, sediment catchments, and add to the recharge of groundwater aquifers.

Canals, laterals and most all of the wetlands have not been assessed for the goals of the CWA nor have they been assessed for their beneficial uses. Canals and laterals are manmade watercourses and have not been included in the Appendix A of the WQS. By default, these waters would be assigned primary protection under the 2008 WQS (OWRB, 2008). Due to a lack of funding, no assessment projects have been initiated on these types of waterbodies. Wetlands have not been assigned specific WQS and therefore fall under the same scenario as canals and laterals. Several projects and ventures have been initiated to inventory the wetlands within the State, but little assessment work has been completed.

The major factors affecting the overall use support of the rivers and streams of the State were from the following causes: pathogens, turbidity and low dissolved oxygen. The major factors affecting the overall use support of the lakes of the State were from the following causes: oxygen depletion, turbidity and color.

All unlisted waters, not included in Appendix A of the WQS, are assumed to have the beneficial uses consistent with the CWA's primary protection requirements. All beneficial use determinations are subject to administrative proceedings including the public hearing process.

Currently, DEQ develops draft National Pollutant Discharge Elimination System (NPDES) permits for the control and abatement of municipal and industrial pollution. DEQ issues the final NPDES permit for municipalities and industrial dischargers. Permit compliance is monitored by both the discharger and inspectors for DEQ.

Since the inception of the CWA in 1972 and its amendments, EPA administered the National Pollutant Discharge Elimination System (NPDES) program, which addresses the management of industrial and municipal wastewater discharges. Previously, the functions related to wastewater were found in the OSDH, for municipal wastewater, and OWRB for industrial wastewater. The scattering of the NPDES jurisdiction between two agencies that were independently pursuing delegation of their portion from the NPDES program did not appear to be conducive for Oklahoma to assume the program from EPA. Consolidation of the two agencies into DEQ in July 1993 solved this problem and the work began for the agency to develop its required program documents, rules and statute changes in preparation of submitting its formal NPDES application to EPA, Region 6 office in Dallas, Texas.

DEQ obtained NPDES program assumption from EPA on November 19, 1996. This is indicative of the agency having jurisdiction over the basic permitting, compliance and enforcement elements of the NPDES program, in addition to having authority over toxicity reduction, sewage sludge and pretreatment programs. In September 1997, program assumption to issue storm water permits was obtained from EPA.

ODAFF received delegation of a partial NPDES program from EPA on December 20, 2012. ODAFF is the NPDES permitting authority for discharges from concentrated animal feeding operations (CAFOs), discharges from the application of biological or chemical pesticides, discharges from silviculture activities, and construction stormwater discharges at agricultural operations.

Ground Water Quality

The Safe Drinking Water Act (SDWA) was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. (SDWA does not regulate private wells which serve fewer than 25 individuals.) Several State agencies are involved in the protection of Oklahoma's groundwater. These include DEQ, ODAFF, Corporation Commission, OCC, and OWRB. DEQ is designated as the lead agency for the Wellhead Protection Program (WHPP).

There are instances of man induced groundwater pollution in the State. Except in a few old oilfields, they appear to be isolated instances and not general contamination of groundwater drinking water supplies. Historical data indicates water is of good quality from most aquifers.

Oklahoma has Groundwater Standards located in OAC 785:45-7. Designated beneficial uses for the groundwaters of the State are determined by Total Dissolved Solids (TDS). Groundwater with a mean concentration of TDS of less than 3,000 milligrams per liter has assigned beneficial uses of Public and Private Water Supply, Agriculture, and Industrial and Municipal Process and Cooling Water. Groundwater with a mean concentration of TDS of greater than or equal to 3,000 milligrams per liter but less than 10,000 milligrams per liter has assigned beneficial uses of Agriculture and Industrial and Municipal Process and Cooling Water. Groundwater is protected to background quality and, once polluted as a result of human activities, is restored to a quality to support its designated beneficial uses. Ensuring that groundwater meets Water Quality Standards is an important reason for developing and continuing a Water Quality monitoring Program.

The Oklahoma Legislature passed Senate Bill 1627 (SB1627) in 2008 requiring OWRB to establish a technical work group to analyze the potential for expanded use of "Marginal Quality Water" (MQW) from various sources throughout Oklahoma. SB1627 required that the group include representatives from State and federal agencies, industry, and other stakeholders. Through facilitated discussions, the group defined MQW as water that historically may have been unusable because of technological or economic issues with diverting, treating, and/or conveying the water. Five categories of MQWs were identified for further characterization and technical analysis, including:

- Treated wastewater effluent
- Stormwater runoff
- Oil and gas flowback/produced water
- Brackish surface and groundwater
- Water with elevated levels of key constituents

Work on this project is in progress and its results will be integrated into the overall Oklahoma Comprehensive Water Plan. A phased approach is being taken to meet the objectives of the legislation. This consists of:

- Quantifying and characterizing MQW sources temporally through 2060 and geographically across the
- Assessing constraints to MQW use
- Matching projected water shortages across Oklahoma with MQW sources and assessing the feasibility of utilizing MQW

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Background

Diversity and Ecology

Oklahoma is a diverse State in its ecology, geology, hydrology, and its rainfall. Oklahoma is comprised of the following ecoregions: Arkansas Valley, Boston Mountains, Central Great Plains, Central Irregular Plains, Central Oklahoma/Texas Plains, Flint Hills, Ouachita Mountains, Ozark Highlands, South Central Plains, Southwestern Tablelands, and Western High Plains. These ecoregions (Figure 1) range from short grass prairies to Loblolly Pine (*Pinus taeda*)/Short-leaf Pine (*P. echinata*)/Oak (*Quercus* spp.) mixed community.

Much of Oklahoma's original plant and some animal species are either extinct or are greatly reduced in their distribution. The reduction in native vegetation is mainly due to urban development cultivation, conversion of native prairie to pasture, timber cutting, and erosion. There are approximately 2,540 species of plants, 81 species of reptiles, 53 species of amphibians, 101 species of mammals, 400 species of birds, and 175 species of fish. Agriculture is the number one land use business in Oklahoma. Wheat is the number one cash grain crop grown in Oklahoma. Wheat is valuable during the winter as pasture feed for cattle, sheep and dairy stock. Other important grain crops for the State include fall and spring oats, barley, rye, sorghum, soybeans, and corn. In addition, pecans, fruits, vegetables, cotton, and timber all constitute a significant source of income for the State. Other important agricultural land use practices include cattle, dairy stock, sheep, horses, goats, poultry, and select exotics (e.g., llamas and ostriches).

The latitude and longitude coordinate for the corners of the State, excluding the Panhandle are: Southeast 033°38'15"/ 094°29'08"; Northeast 036°59'54"/094°37'04"; Southwest 034°33'38"/100°00'00"; and Northwest 037°00'00"/100°00'00". The coordinates for the Panhandle are: Southeast 036°30'00"/ 100°00'00"; Northeast 037°00'00"/100°00'00"; Southwest 036°30'00"/103°00'00"; and Northwest 037°00'00"/103°00'00". Oklahoma runs approximately 481.51 miles east to west and 230.16 miles north to south. The surface area of Oklahoma occupies approximately 69,919 square miles or 44,000,000 acres. Oklahoma varies in its elevation from its lowest point of 287 feet above sea level on the Little River in McCurtain County on the border with Arkansas to its highest point of 4,973 feet above sea level, near Black Mesa in Cimarron County on the border with New Mexico. There are ten major geologic provinces in Oklahoma with the Northern Shelf Areas being the largest (Figure 2) (Oklahoma Geological Survey, 1972). Oklahoma is composed of 77 counties with Osage being the largest (Figure 3). Basic statistics on Oklahoma can be found in Table 9.

Information contained in Table 9 came from a variety of sources including the 2010 U.S. Census, United States Geological Survey data, OWRB data, Oklahoma Water Atlas, Reach File 3/Digital Line Graph Data, ground surveys, the Wildlife Department, United States Fish and Wildlife Service, and planimeter data. For the lakes information, Oklahoma uses the information from the *Oklahoma Water Atlas*. Oklahoma's environmental agencies feel that the information contained in the *Oklahoma Water Atlas* better represents the total of lakes and lake acres contained within the State. For the remaining rivers, creeks, canals and laterals we will be using a combination of sources for our data.

The total of fresh-water wetland acres was derived from information obtained from the Wildlife Department and United States Fish and Wildlife Service reports *Riparian Areas of Western Oklahoma* and *Bottomland Hardwoods of Eastern Oklahoma*. These reports contain information on 58 of the 77 counties in the State. The information in Table 11 was derived from taking the total of the largest most recent estimate for each county listed in the two reports. This total underestimates the actual number of wetland acres for the State and should be used with extreme caution when making comparison or trend analysis on Oklahoma's loss of wetlands.

FIGURE 1. ECOREGIONS OF OKLAHOMA

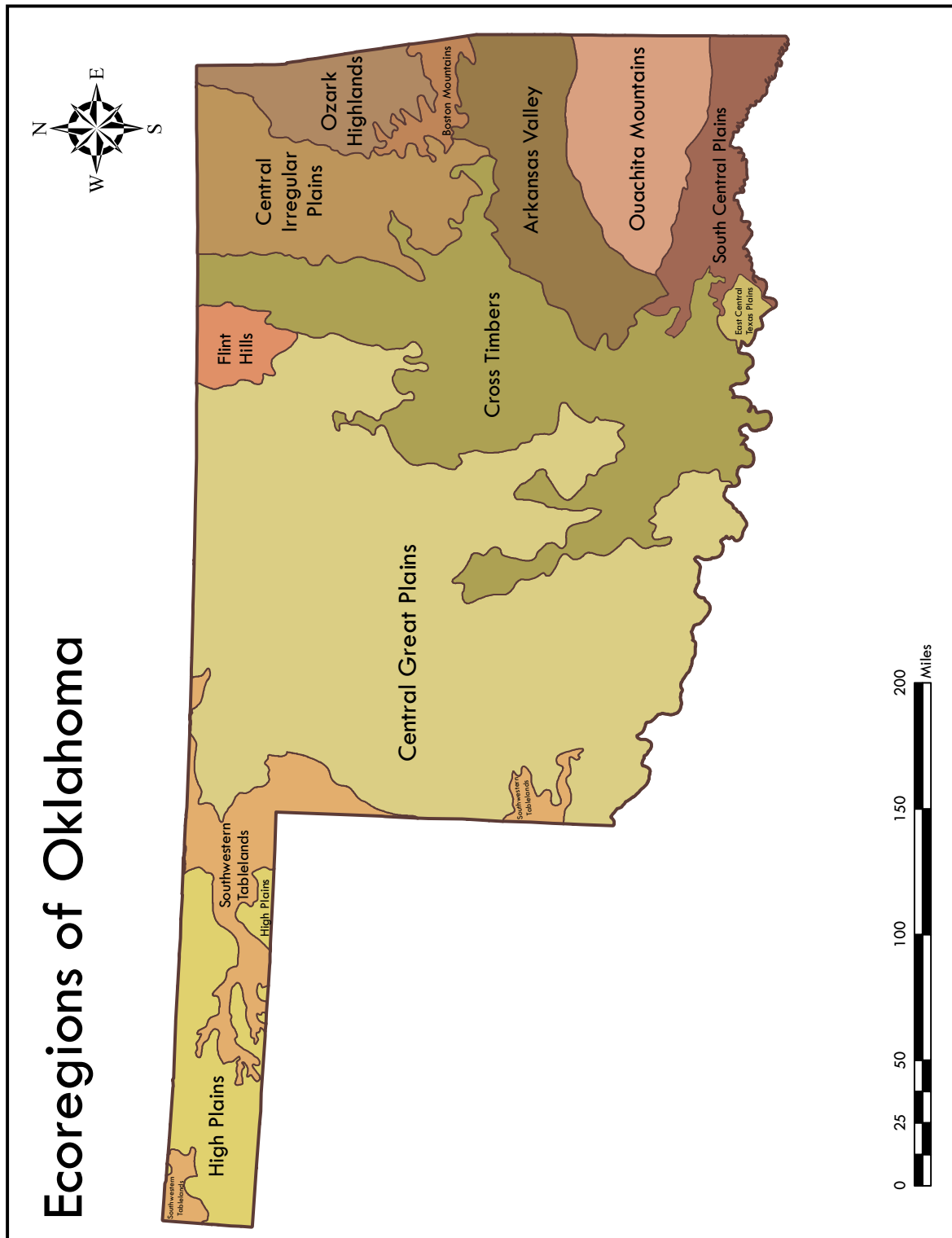


FIGURE 2. OKLAHOMA GEOLOGY

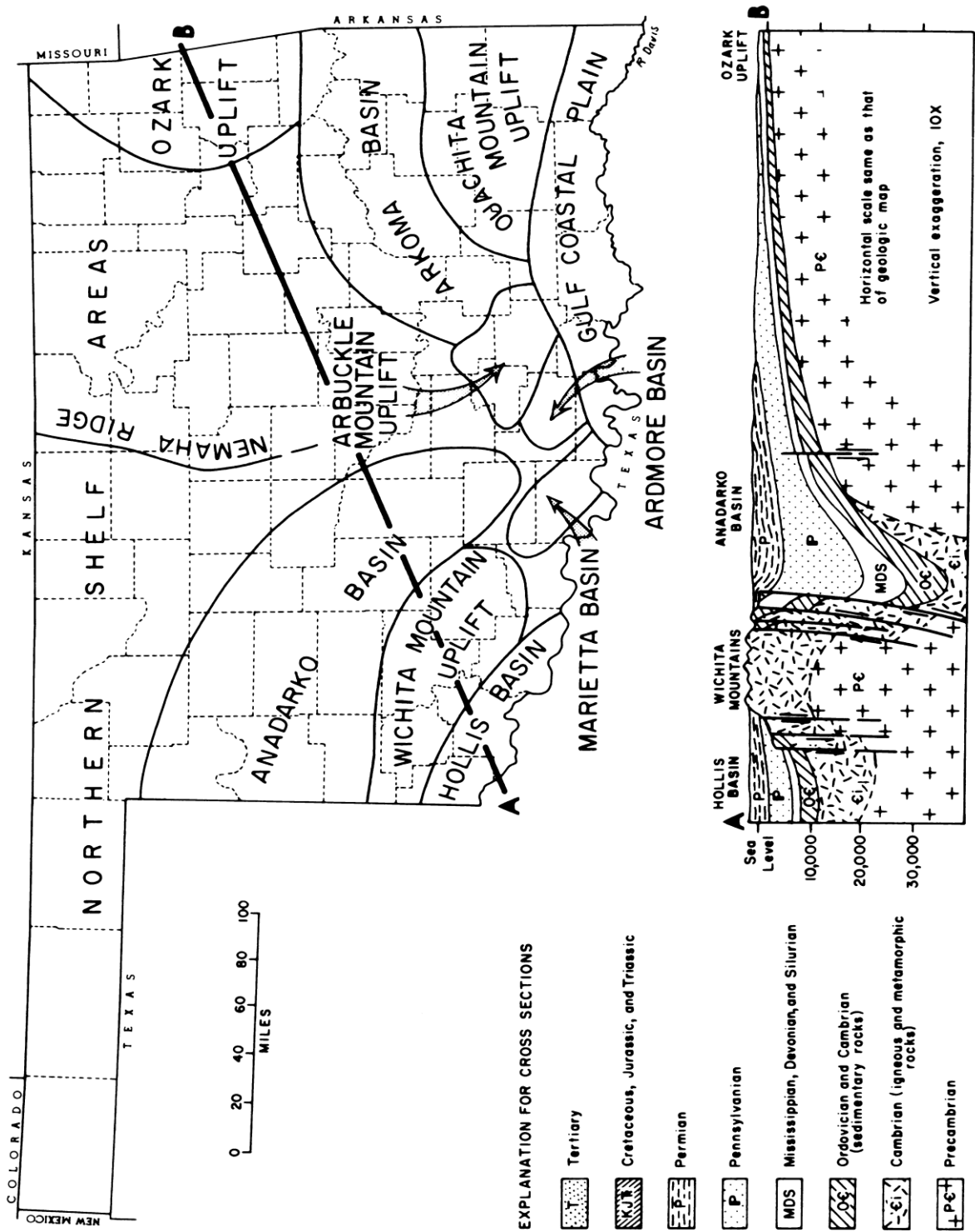


FIGURE 3. OKLAHOMA COUNTIES

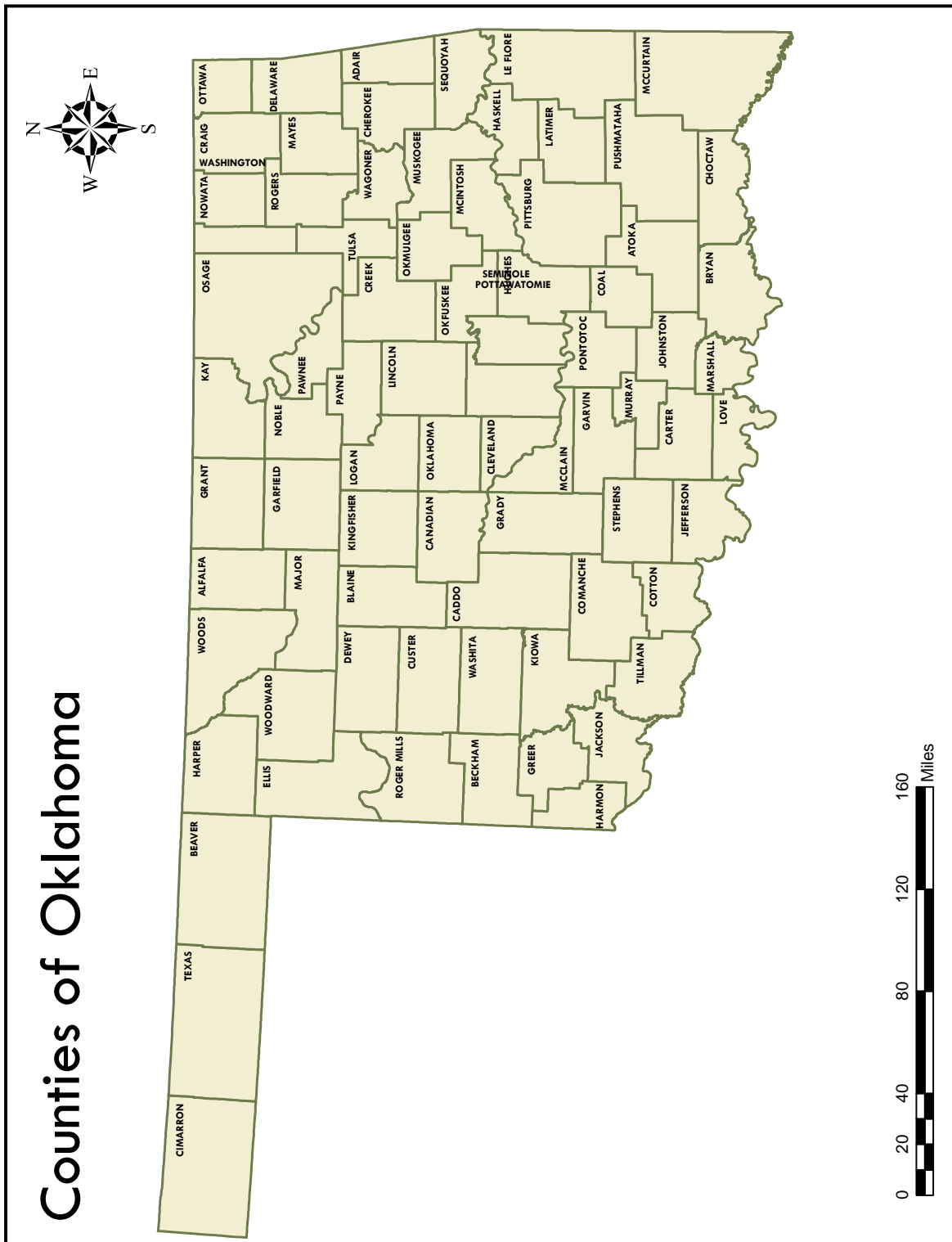


TABLE 11. ATLAS OF OKLAHOMA

State Population [*]	3,751,351
State Surface Area, Square Miles ^{**}	69,919
Number of Major Watershed Basins	7
Total Number of River and Stream Miles [*]	78,778
Number of Perennial River and Stream Miles [*]	22,386
Number of Intermittent Stream Miles [*]	55,413
Number of Canals or Ditches [*]	175
Number of River Border Miles ^{***}	517
Total Number of Lakes/Reservoirs/Playa/Ponds ^{**}	224,948
Number of Large Lakes ^{**}	34
Number of Public & Private Lakes ^{**}	2,303
Number of Watershed Protection Lakes ^{**}	1,964
Number of Playa Lakes (wet season only) ^{**}	585
Number of Oxbow Lakes (≥ 10 Acres) ^{**}	62
Number of Farm Ponds (Soil Conservation Service assisted) ^{**}	220,000
Total Number of Lakes/Reservoirs/Playa/Ponds Acres ^{**}	1,041,884
Major Lake Acres ^{**}	555,450
Public & Private Lake Acres ^{**}	89,836
Watershed Protection Lake Acres ^{**}	54,261
Playa Lakes Acres ^{**}	9,572
Oxbow Lake Acres ^{**}	2,765
Farm Pond Acres ^{**}	330,000
Total Number of Freshwater Wetland Acres ^{***}	733,895

- ^{*} 2010 U.S. Census Bureau Data
- ^{**} Based upon United States Geological Survey information
- ^{***} OWRB Data
- ^{*} Reach File 3/Digital Line Graph Data
- ^{**} Oklahoma Water Atlas, 1990
- ^{***} Estimates compiled from the Wildlife Department & U.S. Fish & Wildlife Service

Climate

Oklahoma has a continental type of climate. There are pronounced seasonal and geographical ranges in both temperature and precipitation. Average annual temperature varies from 53.6°F in the western part of the Panhandle up to 63.8°F in the southeast part of the State. Annual rainfall varies from approximately 17 inches in the far western part of the Panhandle to over 55 inches per year near the LeFlore County/McCurtain County/Arkansas border. The average growing season varies from 180 days in the Panhandle to 240 days in the southeast corner. Typically, 75% of Oklahoma's annual precipitation falls during the growing season.

Water Pollution Control Programs

The myriad and complex water quality problems remaining today require a more comprehensive approach to find workable and effective solutions. As we continue to have success reducing impacts from point sources, pollution from nonpoint sources takes on more significance. Non-traditional concerns such as habitat degradation and conservation of biological diversity also call for a comprehensive approach.

The watershed approach provides such a management framework. Utilizing support from the 104(b)(3) program, Oklahoma has taken the first steps to implement the watershed approach for water quality management in the State. The following accomplishments have been achieved:

- A Whole Basin Planning Approach Working Group was established to coordinate planning and implementation of the watershed approach in Oklahoma. Representatives of the various state and federal agencies with a role in water quality management were represented on the Working Group.
- A cooperative project with USGS produced a new digital elevation model and digital watershed maps for the state. Existing 8-digit cataloging units were subdivided into 11-digit watersheds. These watershed maps are the basis for the state program. The maps have been published on CD-ROM and are available to all agencies and the public.
- Utilizing the new watershed boundaries, the Working Group delineated 11 Watershed Management Units that are used to implement the watershed approach. The intent is that planning, monitoring, permitting, and other water quality programs will eventually be coordinated and organized at this scale when the watershed approach is fully implemented.
- Accurate locational data on all dischargers has been gathered using the Global Positioning System. These data have been built into a GIS-compatible format for analysis. Links to permitting and monitoring data in the PCS system have been established for analysis and assessment purposes.
- A technical committee was established to develop an implementation plan to utilize the new Watershed Management Units and watershed boundaries in the various reporting and planning programs. Water Quality Standards, the 303(d) list, the 208 Plan, and the 305(b) Report were targeted for this effort.

Water Quality Standards Program

Oklahoma's WQS are set forth under statutory authority of OWRB authorized under 82 O.S. § 1085.30. Under these statutes, OWRB "is required to set Water Quality Standards which are practical and in the best public interest and to classify the State's waters with respect to their best present and future uses. These WQS are designed to enhance the quality of the waters, to protect their beneficial uses, and to aid in the prevention, control and abatement of water pollution in the State of Oklahoma" (OWRB, 2006). The WQS have established designated beneficial uses and standards for all of Oklahoma's waters.

Oklahoma defines waters of the State to mean "all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, which are contained within, flow through, or border upon this State or any portion thereof 82 O.S. § 1084.2(3)."

Much of the work developing WQS over the past three decades has been dedicated to the control of point source discharges through chemical-specific criteria and permit limits. Over the past five years, biological water quality criteria have also been pursued.

Potential uses of biocriteria, as they pertain to Oklahoma's WQS, are numerous and far-reaching. Upon completion, biocriteria and their implementation procedures should be incorporated into the OWRB Rules and into Oklahoma's Continuing Planning Process (CPP) document. They should then be used as an assessment tool.

The current biological thresholds will allow State agencies and others to consistently analyze the biological community in terms of the Fish and Wildlife Beneficial Use. These procedures will, for the first time, allow for consistent examination of biological communities with a minimum of subjectivity and judgment. Ongoing work in this area of biocriteria development will eventually provide Statewide coverage and a biological Use Support Assessment Protocols for all ecoregions in Oklahoma.

Candidate reference streams have been selected in the Ouachita Mountain, Arkansas Valley, Boston Mountains, Ozark Highlands, Central Irregular Plains, Central Oklahoma – Texas Plains, and Central Great Plains ecoregions.

Previous work has determined reference taxa for these ecoregions and these lists are currently being validated through thorough stream assessments. The details of the determination of Fish and Wildlife Propagation beneficial use support for wadable streams in the ecoregions listed above can be found at OAC 785:46-15-5 (OWRB, 2008):

Oklahoma will be able to monitor biological communities to determine the effectiveness of permit limits and the parameter-specific criteria they are based upon. Incorporation of biological monitoring and biocriteria to evaluate fish and wildlife beneficial use support will help reduce monitoring costs by eliminating otherwise required tests for metals, pesticides, and other toxic substances.

Point Source Control Program

Oklahoma's point source pollution control programs are administered and carried out by DEQ. DEQ administers both municipal and industrial dischargers and issues permits. DEQ is responsible for monitoring the dischargers to ensure compliance with permit limitations and conditions as well as to receive and review the permittee's self-monitoring data.

For industrial dischargers, DEQ relies on a two-step process for permit development. In the first step, minimum treatment level standards, based on the industry type, are established. These are termed "technology-based limits." The technology-based limits are evaluated to determine if a potential exists to violate the WQS. If the potential to violate the WQS exists, more stringent "water quality-based limits" will be selected for use in the permit.

Each permit specifies both monitoring and reporting requirements for the facility. The permit provides the effective dates of limits, parameters to be tested, applicable limits for each parameter, frequency of analysis, and sample type of monitoring. Monitoring results are summarized on a monitoring report form and submitted to DEQ according to the schedule in the permit. All Discharge Monitoring Reports (DMR) and reports from the permittee are reviewed and violations noted. The permittee's compliance is tracked using the Permit Compliance System (PCS). The administrative staff utilizes violation review criteria to screen for significant violations. This screening process assures that limited enforcement resources concentrate on the most significant violations. The following criteria are used to identify significant violations:

- Two or more excursions of 40% or more for inorganic and oxygen demanding pollutants during a six-month period.
- Two or more excursions of 20% or more for toxic pollutants during a six-month period.
- Non-reporting violations.
- Chronic violations, any violation of any monthly effluent limit for any four or more months in a six month period.
- Any effluent violation that causes or has potential to cause a water quality or human health problem.
- Permit schedule violations.
- Violations of enforcement orders
- Any unauthorized bypass, unpermitted discharge, or pass through of pollutants which may cause a water quality or human health problem.
- Construction or modification of sewage treatment works, Publicly Owned Treatment Works conveyance system or industrial wastewater impoundment, without a permit.

The criteria used for determining significant violations are based on the EPA's current policy, which is used to evaluate all major and minor permits under DEQ's jurisdiction.

Quality assurance strategies are used by DEQ to ensure that facilities comply with their permit. Field inspections are conducted on a regular basis with samples of the discharge collected for analyses. The Customer Assistance Division

maintains the laboratory certification program. This program assures that industries follow all Quality Assurance and Quality Control methods when analyzing their effluent samples. All permits require that all analyses used to determine permit compliance be performed by a DEQ certified lab.

The limits for the permits are "water quality based" and are designed to protect the beneficial uses of the receiving stream. All permits are tracked through the State's Water Quality Management Plan. The plan is updated as needed. The updates to the Plan occur on a regular basis with the last full annual update to the Plan being in 1984.

Each permit is written for a single facility. Most facilities have only one discharge; however, some do have multiple discharges. The information found in each permit includes: latitude and longitude for the facility and/or its point of discharge; effective date(s) of the permit; limits; self-monitoring frequency and sampling type for each discharge point; etc. In addition, the permit also requires the permittee to prepare and submit monthly Discharge Monitoring Reports, which give a summary of the results of the self-monitoring. The Discharge Monitoring Reports are submitted to DEQ.

All Discharge Monitoring Reports from the permittee are reviewed with violations being noted. The permittee's compliance is then tracked using the PCS (an EPA computer database system). DEQ screens the DMR for significant violations. This screening process allows DEQ to concentrate its funding where it is needed most.

Quality Assurance/Quality Control practices are used by DEQ to ensure that publicly owned treatment works are complying with permit conditions. Regular inspections of publicly owned treatment works facilities are conducted by DEQ and/or EPA inspectors with samples of a facility discharge collected for analysis. DEQ requires that all operators and laboratory technicians of publicly owned treatment works be properly trained and certified.

Nonpoint Source Control Program

The OCC serves as the lead technical agency for the nonpoint source (NPS) control program except for oil and gas activities and petroleum storage tanks, which are under Corp. Comm. jurisdiction. The NPS program is a cooperative effort of state, federal and local agencies. Some of these agencies include OCC, DEQ, ODAFF, OWRB, Corp. Comm., local conservation districts, and local landowners. The management programs identify the state, federal and local agencies with responsibilities relative to the nonpoint source of pollution in question and outline a plan of action to reduce or eliminate those sources.

The 2000 revision of the NPS Management Program document includes an inventory of best management practices available for controlling NPS pollution. There are two basic classes of Best Management Practices (BMPs): 1) practices that reduce the pollutants available for transport by the normal rainfall/runoff process (management practices), and 2) devices that reduce the amount of pollutants in the runoff before it is discharged to a surface water body (structural practices). The two main categories of BMPs can be broken down into the following seven general categories:

1. Detention Basins -- The term detention applies when the runoff is temporarily stored, and apart from relatively minor incidental losses due to evaporation or percolation, is subsequently discharged to surface water. Control results from a reduction in pollutant concentrations due to settling during the period that the runoff is detained.
2. Retention Devices -- The term retention applies when runoff is permanently captured so that it is never discharged directly to surface water. The usual mechanism by which storm-water controls permanently capture surface runoff is by infiltration. These techniques are often referred to as infiltration BMPs.
3. Vegetative Controls -- Vegetative controls provide contact between storm-water runoff and vegetated areas and accomplish pollutant removal by combination of filtration, sedimentation and biological uptake that reduce pollutant concentrations, and/or by a reduction in runoff volume due to infiltration or evapotranspiration. Vegetative controls are particularly effective in reducing erosion from runoff across disturbed sites or road bar ditches.
4. Source Controls -- Source control techniques include any practice that either 1) reduce the amount of accumulated pollutants on the land surface available for runoff by rainfall, or 2) regulate the amount of impervious area to reduce the portion of rainfall that will appear as runoff, or 3) exclude inappropriate discharges to storm drains.

5. Discharge Management -- This BMP category refers specifically to the hydrostructure/tailwater category. Under this BMP, impoundment discharge is managed so that the power of discharge water is kept to a minimum and the quality of water is kept at a maximum. This includes aeration of tailwater or, other measures that increase dissolved oxygen levels in tailwater areas.
6. Grade Stabilization -- Grade stabilization refers to any of several different practices used to stabilize areas where rapid runoff of storm-water results in erosion. These can be either temporary or permanent and are generally used in drainage ways where the slope exceeds five percent.
7. Stream Bank Protection -- Stream bank protection refers to the practices used to maintain banks by preventing bank scouring, caving, and gullyng. This category includes stream channel stabilization and in-stream structure for water quality control.

The OCC will perform pre- and post-implementation monitoring to gauge the success of its projects.

The OCC is working toward solving the nonpoint source pollution problems in the watersheds of Lake Eucha, Illinois River, Grand Lake, and the North Canadian River between Canton Lake and Lake Overholser in cooperation with several agencies, including Corporation Commission, the ODAFF, the Scenic Rivers Commission, DEQ, OWRB, INCOG, ACOG, the Cooperative Extension Service, the NRCS, and the Agricultural Stabilization and Conservation Service. The project objectives are to 1) implement BMPs in those watersheds 2) demonstrate control measures to decrease nutrient loading in the watershed, 3) transfer information from successful demonstration projects to other watersheds, and 4) create a management program to coordinate all aspects of watershed remediation.

The OCC is the State agency that oversees implementation of the Conservation Reserve Enhancement Program (CREP) signed April 23, 2007. CREP is a \$20.6 million cooperative conservation partnership agreement between USDA and Oklahoma. The program pays eligible landowners in eligible watersheds to establish areas of riparian buffers along streams, removing those strips of land from agricultural production for 10 to 15 years. Focused in northeast Oklahoma, CREP will create 500 acres of vegetative filter strips and 8,500 acres of riparian buffers for a total of 9,000 acres of riparian buffers for a total of 370 miles of protected streams in the Illinois River and Eucha/Spavinaw Watersheds. Conservation plantings will reduce the flow of nutrients, sediment and other pollutants in these critical watersheds. Key CREP partners include City of Tulsa's Metropolitan Utility Authority, Oklahoma Scenic Rivers Commission, conservation districts of Adair, Cherokee, Delaware, Mayes, and Sequoyah counties, the USDA Farm Service Agency (FSA) and USDA Natural Resources Conservation Service (NRCS).

The ODAFF has authorities under the Oklahoma Concentrated Animal Feeding Operations (CAFO) Act, the Oklahoma Swine Feeding Operations (SFO) Act and the Registered Poultry Feeding Operations (RPFO) Act to enforce regulations governing the owners and/or operators of concentrated animal feeding operations, swine feeding operations and poultry feeding operations. The CAFO Act and SFO Act require all animal wastes and wastewaters from such operations be held in a total retention system preventing its discharge to the waters of the State and that waste generated in these operations be disposed of in a proper manner. The CAFO Act and SFO Act also require owners/operators to develop and implement Pollution Prevention Plans and Best Management Practices (BMPs) at these operations. Animal Waste Management Plans (AWMPs) could be used in place of BMPs for CAFOs facilities and Swine Waste Management Plans could be used in place of BMPs for SFOs. Similarly, the RPFO Act requires poultry feeding operations to develop and implement AWMPs in storing, handling and utilizing poultry litter. The SFO and RPFO Acts also requires minimum education and training in waste management and related fields be obtained by owners/operators of these facilities. The Oklahoma Poultry Waste Applicators Certification (PWAC) Act requires the applicators be certified by ODAFF, and soil and litter tests be obtained by the applicators in determining application rates on any field. Applicators shall report to ODAFF each year the amounts of litter and locations where litter is applied. All four Acts require that land applications of either manure, litter or liquid animal waste be performed at agronomic rates. More rigorous requirements are imposed on land applications in the nutrient limited watersheds or in the areas designated as nutrient vulnerable ground water. The CAFO, SFO and RPFO Acts were designed to prevent and abate pollution from entering and contaminating any surface or groundwater. Under these Acts, the ODAFF is required to conduct annual inspections of these operations as well as investigate any complaints filed against such operations. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF has authorities under the Oklahoma Fertilizer Law to enforce the proper handling and storage of commercial fertilizers. The ODAFF licenses all bulk fertilizer storage facilities. All fertilizer materials shall be stored, applied, and handled in a manner, which prevents pollution of groundwater by minimizing losses of the fertilizer materials. This law is designed to prevent and abate the pollution of surface and groundwater within the State.

Under this law, the ODAFF has the authority to conduct routine inspections of bulk storage facilities as well as investigate complaint received on a facility. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF has authorities under the Combined Pesticide Law and Rules to enforce the proper handling, storage, and use of commercial pesticides. These laws give the ODAFF authority to mandate regulations for the use of pesticides, how they are to be stored, and who can purchase them for application. These laws are designed to prevent or abate pollution of the waters of the State. Under these laws, the ODAFF must conduct routine inspections and investigates complaints on all facilities or individuals who store, sell, or apply pesticides. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF is also funding a yearly program to collect and properly dispose of unwanted pesticides. All Oklahoma farmers, ranchers, pesticide dealers, commercial applicators and non-commercial applicators are eligible to participate in this program. The ODAFF has contracted a licensed hazardous waste company to collect and properly dispose of waste pesticides in Oklahoma.

Under Oklahoma Forestry Codes, ODAFF's Forestry Services' water quality program monitors the effects of forest practices on water quality, administers silvicultural best management practices and provides training and education of landowners, loggers and forest managers.

Corp Comm has worked with the Integrated Petroleum Environmental Consortium (IPEC), a consortium of the University of Tulsa (TU), the University of Oklahoma (OU), Oklahoma State University (OSU), and the University of Arkansas (UA) at Fayetteville, and the Marginal Well Commission to develop and disseminate best management practices for the hundreds of small oil and gas operators in the State. IPEC and Well Commission meetings and workshops, along with the brochures, checklists, kits, videos, and other materials provided by IPEC, have helped producers reduce the environmental impacts from their oil and gas activities. In addition, Corp Comm has adopted and enforced rules on site operation, pollution containment BMPs, land application, and spill cleanup with site restoration that help to minimize non-point source impacts.

There are other nonpoint source projects that affect either a specific watershed area, or are Statewide projects that will affect several waterbodies. In addition, there are projects planned in other areas of concern other than agriculturally related problems. Continuation of this program is dependent largely on federal grant support.

Superfund Program

Historical hazardous waste problems did not fit into the regulatory hazardous waste system until the passage of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or Superfund) of 1980. This act created a large scale national program to identify and remediate sites contaminated from historical hazardous waste problems and whose owners were no longer available or financially solvent to pay for the cleanup, or whose owners were no longer around. The term "Superfund" was coined to describe the source of funding for this program. Funding for remedial action was initially obtained from a national revolving fund. The fund obtained its monies through taxes paid on chemical feedstocks used in the manufacture of chemical products that were likely to become hazardous waste. This fund has not been reauthorized since 1996 and funding now relies on general appropriations from Congress. Superfund also established a mechanism to recover cleanup costs from potentially responsible parties.

DEQ's Superfund Program conducts and oversees pre-remedial and remedial activities on several Superfund sites. The Oklahoma Superfund Program relies on federal monies awarded through a cooperative agreement with EPA. There are thirteen sites in Oklahoma that are on the EPA National Priority List (NPL). EPA ranks sites for clean up based on the actual or potential risks posed to human health or the environment.

DEQ's Voluntary Cleanup Program and Brownfield Redevelopment Programs have several large Superfund-like sites that are undergoing investigation and cleanup. In addition to these larger sites the Voluntary Cleanup Program has dozens of sites that are undergoing remediation for groundwater contamination that are not listed here. There are also many RCRA sites that are undergoing corrective action for groundwater contamination that are not listed here.

DEQ also has authority under 27A O.S. §2-7-123 for risk based remediations, and/or 27A O.S. §2-15-107 for Brownfields sites to place notices on property deeds of risk-based remediation and also allows for restrictions on certain uses, including the use of groundwater if appropriate. Some of the sites listed below have such notices and restrictions filed in their respective county land records.

Refer to Table 12, "Superfund, NPL, and Non-NPL Sites Impacting on Groundwater and Surface Water" for a listing of sites within Oklahoma.

TABLE 12. SUPERFUND, NPL, AND NON-NPL SITES IMPACTING ON GROUNDWATER AND SURFACE WATER

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Tar Creek Mining Activities	R24E T29N S16-21 R24E T29N S29-32 R24E T28N S5-6 R23E T28N S05-08 R23E T28N S18-19 R23E T28N S30 R23E T29N S13-36 R22E T28N S01 R22E T28N S12-13 R22E T28N S24-25 R22E T28N S30 R22E T29N S13 R22E T29N S24 R22E T29N S25 R22E T29N S36	Ottawa	Acid Water Cadmium Iron Lead Sulfates Zinc	Boone Aquifer Yes Roubidoux Aquifer, yes (locally near Picher and Quapaw)	Tar Creek Yes

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Sand Springs Petrochemical Complex Refinery/ Solvent Recycling	R11E T19N S13-14	Tulsa	Volatile Organic Compounds	Arkansas River Alluvium Yes	Arkansas River (receives discharges but no identifiable impacts)
Compass Municipal Landfill	R12E T19N S18	Tulsa	Benzene Bleaches Caustics Jet Fuel PCBs Pesticides Solvents	Not Applicable	Arkansas River No
Hardage-Criner Industrial Landfill	R04W T06N S24	McClain	Acids Alcohols Caustics Metals Pesticides Solvents	North Criner Creek Alluvium Yes	North Criner Creek Yes
Tenth Street Salvage Yard	R02W T12N S31	Oklahoma	PCBs	North Canadian Alluvium No	North Canadian River No
Tinker AFB Aircraft Maintenance	R02W T11N S14 R02W T11N S23	Oklahoma	Organic Solvents (TCE) Chromium Petroleum Fuels	Garber- Wellington Aquifer Yes	Soldier Creek Yes
Fourth Street Refinery	SE4 SEC35 T12N R3W & SW4 SEC36 T12N R3W	Oklahoma	Lead BTEX Volatile Organic Compounds	Garber- Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No identifiable impacts
Mosley Road Landfill Municipal Landfill	R02W T12N S21	Oklahoma	Volatile Organic Compounds	Garber- Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Double Eagle Refinery Refinery	SE4 SEC35 T12N R3W & SW4 SEC36 T12N R3W	Oklahoma	Lead BTEX Volatile Organic Compounds	Garber-Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No
Oklahoma Refining Co Refinery	R09W T05N S18-19	Caddo	Metals VOCs Petroleum Organics Aromatic Hydrocarbons	Rush Springs Aquifer Yes	Gladys Creek Yes
Kerr-McGee Cushing Refinery Refinery	R05W T18N S22&27	Payne	Acid Oil Sludge Heavy Hydrocarbons	Unconfined Aquifer Yes Vamoosa-Ada Aquifer No	Skull Creek Yes
Kerr-McGee Cleveland Refinery Refinery	R08E T21N S18	Pawnee	Petroleum Coke Asbestos Acid Sludges	Cedar Creek Alluvium Yes Vamoosa-Ada Aquifer Yes	Cedar Creek Yes
Blackwell Zinc Smelter	R01W T27N S21	Kay	Metals	Chikaskia River Alluvium Yes	Unnamed tributary of Chikaskia River Yes
National Zinc	R12E T26N S11	Washington	Metals	Not Applicable	Unnamed tributary of Eliza Creek Cleaned up
Ringling Gasoline Spill	NW4 Sec.35 T4S R4W	Jefferson	BTEX and TPH-GRO	Yes	No
Tulsa Fuels & Manufacturing Smelter	NE4 SE4 NE4 SEC 31 & SW4 NW4 SEC32 T22N R14E 1M	Tulsa	Metals	No	Unnamed drainages Yes (sediment only)
Hudson Refining Refinery	SW4 SEC33 T18N R05E & NE4 NW4 SEC04 T17N R05E 1m	Payne	Hydrocarbons metals	Vanoss Aquifer Yes	Wastewater Ponds On-Site Yes Skull Creek No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Duncan Refinery Refinery	R7W T1S S32	Stephens	Hydrocarbons	Garber Yes	Claridy Creek Yes
Collinsville Smelter Smelter	R14E T22N S32	Tulsa	Metals	No	Blackjack Creek Yes (sediment only)
U.S. Zinc Company Smelter	R13E T11N S6	Okmulgee	Metals	No	Yes
Coltec, Inc. Manufacturing	R13E T11N S3	Sequoyah	Solvent (PCE)	Boggy Formation Yes	No
Rab Valley Lumber	R25E T8N S15, S16	LeFlore	PAHs	Yes	Yes
Union Pacific Railroad	R7W T17N S14	Kingfisher	Carbon Tetrachloride	Yes	Yes
Okmulgee Refinery	R13E T13N S31 R13E T12N S6	Okmulgee	BTEX, Metals, PAHs	Yes	Yes
Imperial Refining Corporation	R2E T4S S20, S21	Carter	BTEX, Metals, PAHs	No	Wetlands Yes
Clinton-Sherman Industrial Airpark Airbase	R19W T10N S10-11 R19W T10N S14-15	Washita	Trichloro- ethylene (TCE)	Elk City Sandstone Aquifer Yes	Not Applicable
Dobson Ranch	NW4 SEC 17 T11N R26W IM	Roger Mills	Benzene	Ogallala Yes	No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Cornerstone Shopping Center	SE4 SEC16 T 12N R 4W approx 6 acres of West Park Addition to Oklahoma City	Oklahoma	Tetrachloro-ethene	Quaternary Terrace Deposits Yes	No
Oklahoma City Urban Renewal - Phase I	21.6 acres of the NW4 SEC 3 T11N R3W	Oklahoma	Hydrocarbons	Alluvium and Terrace Deposits Yes	No
Blackstar Performance	SE4 SEC25 T20N R8E & NE4 SEC25 T20N R8E	Pawnee	Chlorinated solvents	Tallant Formation Yes	No
OKC Solvent Plume	80 acres in NE/4 S27 T12N R4W & NW/4 S27 T12N R4W	Oklahoma	Chlorinated solvents	N. Canadian Terrace Deposits Yes	No
Compass Industries Landfill	R12E T9N SEC18 & NE4 SE4 SEC 13 T 19N R 11E	Tulsa	SVOC	Yes	Yes
Anadarko Petroleum	NW1/4 Sec4 T22N R6W	Garfield	Petroleum Hydrocarbons and metals	Yes (Terrace Deposits)	No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Michelin/BFG	N1/2 SW1/4 T28N R22E	Ottawa	VOC	Yes	No
Halliburton Osage Road	SE 1/4 of Section 8 Township 1N and Range 7W	Stephens County	Perchlorate, Nitrate	Yes, in the Chickasha and Duncan Formations	No, continues to be monitored

Surface Water Assessment

Surface Water Monitoring Program

The two agencies primarily responsible for carrying out Oklahoma's surface water monitoring programs are the OCC and OWRB.

Brief Summary of Oklahoma Conservation Commission Monitoring Activities

The Oklahoma Conservation Commission (OCC) has an extensive and unique monitoring program. While OCC conducts several distinct types of monitoring activities, it is important to note that monitoring efforts are primarily focused on determining the extent, nature, and probable source(s) of non-point source (NPS) pollution. Following is a summary of types of monitoring activities OCC conducts across the State.

1. Ambient Monitoring
 - a. Routine efforts to collect information about the physical, chemical, and biological characteristics of streams to determine status and trends
 - b. Fixed station monitoring occurs at the same place over time to document status and trends. Through OCC's Rotating Basin Monitoring Program (RBMP), 250 sites are monitored for 24 months on a rotational basis every five years.
 - c. Probabilistic monitoring constitutes sampling of sites which have been randomly selected to represent a population of sites with known statistical confidence. OCC samples 50 sites per year randomly selected from the current RBMP basin, resulting in a total sampling effort of 250 sites within the five year rotation.
 - d. Includes collection of physical, chemical, and biological data.
 - e. Fulfillment of the Clean Water Act Section 319 mandate, "to monitor and assess the State's waters for the effects of NPS pollution."
2. Diagnostic Monitoring
 - a. Usually occurs subsequent to ambient monitoring
 - b. Involves more in-depth sampling to confirm or refute suspected NPS pollution problems, identify and pinpoint sources, and more accurately document causes and effects of specific problems
 - c. May include land use assessment, modeling, more intensive water quality monitoring, and biological assessments
3. Implementation Monitoring
 - a. Designed to determine the effects of best management practices (BMPs) on water quality
 - b. Usually involves sampling before and after BMP implementation efforts
 - c. May include physical, chemical, and/or biological assessments and usually involves collection of continuous flow weighted samples via automated sampling devices.
4. Reference Condition Monitoring
 - a. Designed to determine what conditions a healthy waterbody should exhibit in order to determine if other waterbodies are polluted and to what extent
 - b. Data collection ensures sufficient physical, chemical, and biological assessments to facilitate a ranking process for determination of high quality sites.
 - c. Reference monitoring data will be made available to OWRB to help establish biological criteria as part of State Water Quality Standards
5. Volunteer Monitoring
 - a. Statewide volunteer monitoring program designed to provide a continuing opportunity for water quality and environmental education.
 - b. Volunteers are trained and certified for collection of select physical, chemical, and biological data used for basic assessment and general trend monitoring

The OCC conducts other specialized types of monitoring, although rather infrequently and generally at the request of other agencies. Purposes for monitoring may include:

- Protection of endangered species
- Total maximum daily load (TMDL) development
- Fluvial geomorphology (establishing the relationship between stream shape, climate, and the stream's location in the watershed)
- Documentation of pre- and post-restoration projects to assess effects (e.g., bank restoration or stabilization, in-stream habitat improvement)
- Community assessments for delisting streams when existing data is deemed insufficient or ambiguous

All OCC monitoring is conducted in accordance with EPA-approved Quality Assurance Project Plans (QAPPs). These QAPPs are subject to peer agency review and approval by the Office of the Secretary of the Environment. OCC monitoring efforts are coordinated with other state and federal environmental agencies in order to maximize the use of state resources.

Brief Summary of Oklahoma Water Resources Board Monitoring Activities

OWRB conducts routine monitoring throughout the State. The major monitoring program is the Beneficial Use Monitoring Program (BUMP) out of which an annual report is generated and distributed to all State legislators. BUMP targets sites on lakes and streams in cooperation with DEQ, OCC, and other State agencies. Parameters are selected in order to establish the overall health of State waters and to discover ambient trends, develop TMDLs, and support development of Water Quality Standards. The primary purpose of the BUMP is to assess the beneficial use support status of State surface waters.

In addition to BUMP, OWRB conducts several special monitoring efforts across the State. Parameters, sites, and frequency of monitoring are established on a case-by-case basis for each of these programs. All are established under formal contracts with the various entities.

- Statewide and Regional Probabilistic Monitoring
 - OWRB has completed and reported the second and third Statewide streams probabilistic study in Oklahoma. The report has been submitted to DEQ for inclusion the State's Integrated Report to fulfill OWRB's 305(b) reporting requirement
 - OWRB embarks on a fourth and fifth Statewide stream study in 2013 and will complete in 2015 and 2017, respectively. As before, the study will encompass a 4-year span of all sized flowing waterbodies as well as subsidiary assessment of condition for smaller and larger waterbodies and three large ecoregion groupings within the state.
 - OWRB is completing work on the second Statewide lakes probabilistic study in Oklahoma. The report will be submitted to EPA in 2015 and results will be included in the State's Integrated Report as necessary.
- Clean Lakes & Technical Studies
 - Eucha Lake
 - 319 NPS project installed 6,400 ft² of floating wetlands made from recycled plastic bottles
 - Assessing efficacy of floating wetlands to reduce the impact of nutria
 - Ft Cobb Lake
 - Established native aquatic plants in lacustrine fringe area in collaboration with the ODWC as part of a 319 NPS project
 - ODWC will maintain established founder colonies to assist with this long-term effort
 - Lake Thunderbird
 - Monitoring of lake to assess impact of installed SDOX system and determine additional actions to mitigate cultural eutrophication
 - Lake managers, COMCD, installed a liquid oxygen device to oxygenate the hypolimnion of the lake to improve raw drinking water quality through lowered organic content (algae growth) and more complete breakdown of detritus trapped in the hypolimnion
 - Ardmore City Lakes, Jean Neustadt; Scott King, Ardmore City and Mountain Lakes

- Completed bathymetric/sedimentation surveys for all lakes
 - Complete firm yield analysis for incorporation into Ardmore's long range planning process
- Waurika Lake
 - Collected bathymetric data of raw water intake area for dredging to ensure water availability during extreme drought (low water) conditions
 - OWRB will perform post dredging bathymetry for verification
- Lake Stanley Draper
 - OWRB has assisted the City of Oklahoma City to extirpate the invasive aquatic plant, Giant Reed *Phragmites australis*, from the shoreline reducing long term sedimentation, nutrient enrichment and aesthetics.
- Biological Assessments
 - Aimed at establishing biological criteria for inclusion in the Water Quality Standards
 - Combines physical, chemical, and biological measurements in a holistic approach
 - Are making condition assessments for fish, macroinvertebrates, and sestonic and benthic chlorophyll- α in flowing waters, as well as sestonic chlorophyll- α in lakes. Eventually, will make assessments for periphyton communities in flowing waters and zooplankton in lakes.
- Impaired Waterbody Monitoring – 303(d) List
 - Site-specific monitoring under various contracts with DEQ, OCC, and Oklahoma Corporation Commission
 - Aimed at verifying impaired waters listings and/or developing TMDLs
 - All monitoring activities are coordinated with the other state and federal agencies that collect water quality data in order minimize duplication of efforts.

Fish Consumption Beneficial Use—Thallium Listings

During the 2010 listing process, many thallium fish consumption listings were considered to be possibly erroneous. Thallium has a very low criterion (1.4 ppb). When using a percent exceedance test, all listed sites had less than 10% of samples above the criterion. In fact, over a 10 year period, the only samples above criterion occurred over three separate sampling periods—spring 2002, later winter-early spring 2003, and early fall 2004. Furthermore, the reporting limit for thallium has ranged from 3 and 10 ppb, and nearly all samples have been below detection limit. Reporting limits play a major role in effectively analyzing the data. However, thallium reporting limits have been unavoidably inconsistent from year to year and historically are always greater than 2x the criterion. This has made effective analysis a difficult task. These issues are not uncommon with many metals analyses. However, OWRB has worked with the State Environmental Laboratory Services Division (SELS) to bring most reporting limits in line with relevant criteria. Because thallium has never been used as a cause code for a listing, its reporting limit had not been effectively dealt with.

In light of the proposed listing of 69 stream segments for thallium, OWRB and SELS took the following corrective action. First, the thallium reporting limit was reduced to 1 ppb. Second, the OWRB resampled the 69 listed sites for thallium. This sampling scenario provided the minimum number of data points per site needed for assessment and were seasonally representative. Combined with data collected since 2004 (all of which are below reporting limits), five years of data became available for analyses during the 2012 reporting cycle. Based on the new data, all but one site were delisted for thallium during the 2012 reporting cycle.

Brief Summary of Oklahoma Corporation Commission Monitoring Activities

The Corporation Commission (Corp Comm) does five types of environmental monitoring:

1. Soil sampling at spill and other potential pollution case sites;
2. Well water sampling near spill and other potential pollution source sites (ground water impacts are discussed in the Ground Water Quality section, page ...);
3. Stream water sampling near spills, pits, purging wells, and other potential pollution sources;
4. Stream, and other surface water sampling in historic oilfield areas, to determine the overall impact of historical oilfield activity on the waters of the State; and
5. Sampling to evaluate the need for and propose watershed-specific revisions to surface Water Quality Standards.

Both the Petroleum Storage Tank and the Oil and Gas Conservation (Oil & Gas) Divisions within the Oklahoma Corporation Commission perform the first three types of sampling. Only Corp Comm Oil & Gas does the types of sampling listed in 4 and 5. These were partially grant (104b, 319h) funded but mostly State funded until 2005, when Corp Comm Oil & Gas, with assistance from the Oklahoma Conservation Commission, began an extensive grant-funded sampling and source identification project in several old oilfield areas with high salinity produced water in South-Central Oklahoma. The descriptions below cover **only** Oil and Gas Division water quality monitoring.

A. Since 1998 the Oil and Gas Conservation Division has been performing and working with partners on the type of sampling listed in items 3 and 4 above. Overall, the number of sites sampled by Corp Comm and partners so far to determine stream water quality in oil and gas producing areas is:

- 6061 surface water sampling events to evaluate overall stream quality, and
- 1325 stream sample events in old oil fields in relation to nearby spills

This total includes 1,370 samples (approximately 10 per stream) collected and analyzed for Corp Comm Oil & Gas under the OWRB's Rotating BUMP program, and 1810 completed sampling events (plus 1045 dry/no access attempts) done by Conservation Commission personnel and paid for by Corp Comm Oil & Gas under the South Oklahoma 104b grant. The rest of the samples were State funded, collected by Corp Comm Oil & Gas personnel. Corp Comm Oil & Gas has been evaluating the analysis results to determine which of the monitored streams are actually impaired, and which are attaining some or all of their designated beneficial uses. A visual check for petroleum is made every time a stream is sampled.

B. In 2002 and 2003 Corp Comm Oil & Gas oversaw a project to gather typical mineral levels in streams in several watersheds. Corp Comm hoped to use this data, combined with other stream data already collected, to help determine appropriate watershed-based State Water Quality Standards in several areas across the State. Conservation Commission staff collected most of the water samples, with Corp Comm Oil & Gas paying for the analyses with a small 104b grant and managing the data.. This includes

- 373 samples from approximately 90 streams in 25 watersheds collected by Conservation Commission and analyzed with Corp Comm Oil & Gas's funds;
- 87 BUMP samples collected in multiple streams for Corp Comm by OWRB in one additional watershed.

C. From 2005 until 2008 Corp Comm worked on the South Central Oklahoma Project in a 33X33 mile area (over 1000 square miles) in Grady, Garvin, Stephens, and Carter counties. For 18 months every accessible location where a stream crossed a road was periodically sampled by Oklahoma Conservation Commission personnel using calibrated field meters for pH, TDS, and conductivity. In 337 of the 1810 water monitoring events water samples were also collected and sent to a lab for complete analysis of all anions and cations. This data was used to determine that 59 permanently flowing streams and smaller tributary creeks in the old oilfield areas evaluated had significantly elevated salinity levels. A Helicopter EM survey was also done in part of this area to determine groundwater impacts and surface water/groundwater interaction – see the Groundwater Quality section of this report for more detail.

D. The sampling results from all of the different surface water sampling projects, plus some limited data provided to Corp Comm by others (e.g. 44 samples collected by the University of Tulsa in oilfield areas for the Seminole Nation) are considered in making stream impairment/attainment decisions for the Integrated Report, including the 303(d) impaired stream listings (Category 5).

Corp Comm Oil & Gas is also involved with alternative measures to TMDLs for applicable waterbodies in Category 5. Examples of these include such measures as:

- the cleanup of a historic site that is leaking pollutants into ground and/or surface water causing impairment, or
- a finding of irreversible man-induced impacts in a waterbody, with recommendations for changes in the listed beneficial uses until impacts are reduced.

Assessment Methodology

The following methodologies, along with the procedures described in Figure 4 near the end of this section, shall be used to determine the attainment status of a waterbody's designated beneficial uses and its subsequent categorization in this Integrated Water Quality Report.

A waterbody that is listed on the State's current 303(d) list may only be placed in category 1,2, or 3 of the Integrated Report for "good cause" or if it is demonstrated that new data or information indicate that the waterbody is attaining its designated beneficial uses. "Good cause" shall mean that the State will provide a reasonable basis for the recommendation such as flaws in the original analysis that led to the water being listed; more recent or accurate data; more sophisticated water quality modeling; changes in conditions (e.g., new control equipment or elimination of discharges); or data is insufficient or non-existent to assess that all uses are met and the water should more appropriately be in Category 2 or 3.

Waterbodies in categories 2 & 3 will be prioritized in a manner similar to the category 5 waterbodies. A monitoring schedule will be included for categories 2 & 3 as part of the Integrated Report. Waterbodies included on the most recent 303(d) list will receive the highest priority for future monitoring.

Use Support Assessment Protocol

These procedures closely follow those set forth in the State's Use Support Assessment Protocol (USAP), which can be found in OAC 785:46-15. Where the USAP is silent, this listing methodology should be used. Where there are discrepancies between this methodology and the USAP, the USAP controls.

Beneficial Uses

The Listing Methodology is categorized into beneficial uses. Each beneficial use has a procedure for determining attainment of that use based on various kinds of biological, chemical, and historical data. The result of applying this methodology for any given beneficial use must be one of three choices: "attained", "not attained," and "not enough data to make a determination."

Some beneficial uses have procedures for several different types of data, all of which must be determinable – unless otherwise specified – in order to determine that the beneficial use is attained. Otherwise, the attainment decision must be designated "not enough data to make a determination."

Data Requirements

The data used to make a determination must meet various quantity, quality, spatial, and temporal requirements in order to satisfy the attainment procedures. The following general requirements apply unless otherwise specified in the use-specific procedures that follow. If neither an "attained" nor "not attained" determination can be made, then the overall determination for that beneficial use or subcategory shall be "not enough data to make a determination."

Spatial

- In general, stream sampling locations should take into consideration existing data, spatial distribution of monitoring sites, sources of pollution, and major hydrological features such as tributaries and dams.
- Non-wadable stream samples may represent a maximum of 25 stream miles.
- Wadable stream samples may represent a maximum of 10 stream miles.
- Lake samples may represent a maximum of 250 acres per sample. Arms or portions of lakes may be treated separately from the main body of a lake.
- Samples may not be taken within regulatory mixing zones.

Temporal

- Sampling must represent seasonal variation. Temporal bias should be avoided.
- Multiple samples for a parameter collected on the same stream segment on the same date will be aggregated into one average value representative of the stream condition on that date. This sample aggregation is performed to prevent temporal bias.
- Stream data older than five (5) years should not be used to make use attainment determinations unless insufficient data exists for the previous five (5) year period.
- Lake data older than ten (10) years should not be used to make use attainment determinations unless insufficient data exists for the previous ten (10) year period.

Quantity

- For streams, a minimum of ten (10) samples is required to determine use attainment for parameters such as DO, pH, temperature, coliform bacteria, dissolved solids, and salts.
- For lakes of more than 250 surface acres, a minimum of twenty (20) samples is required to determine use attainment for parameters such as DO, pH, temperature, coliform bacteria, chlorophyll- α , and dissolved solids. For lakes of 250 surface acres or less, a minimum of ten (10) samples is required.
- For toxicants, a minimum of five (5) samples is required to determine use attainment.
- For any type of sample, if existing samples already assure a "not attained" determination, the minimum sample quantity requirement does not apply.

PQLs

Criteria above PQL

If sample values are below the PQL (Practical Quantitation Limit) for a parameter whose criterion is above the PQL, appropriate nonparametric statistical measures shall be used to determine the reporting value.

For waterbodies identified as impaired on the current Integrated Report, if sample values are nondetectable for a parameter whose criterion is above the PQL, then such value shall be deemed to be one-half ($1/2$) of the parameter PQL.

All sample values that are above the PQL shall be the reported values.

Criteria below PQL

If sample values are below the PQL for a criterion which is less than one-half ($1/2$) of the PQL, then the values shall be deemed to be zero (0) until the first test result above the PQL appears. After that time, sample values which are below the PQL shall be deemed to be equal to the criterion value until four (4) subsequent contiguous samples are shown to be below the PQL. Any subsequent sample values which are nondetectable may be treated as zero (0) until the next test result appears above the PQL.

For those parameters whose criteria are at least two (2) orders of magnitude below the PQL, evidence considered with respect to assessment of use support shall include fish tissue analysis, biological community analysis, biological thresholds wherever available, or other holistic indicators which are appropriate for the beneficial use in question.

If sample values are below the PQL for a criterion which is greater than or equal to one-half ($1/2$) of the PQL but less than the PQL, then the values shall be deemed to be one-half ($1/2$) of the criterion value until the first test result above the PQL appears. After that time, sample values which are below the PQL shall be deemed to be equal to the criterion value until four (4) subsequent contiguous samples are shown to be below the PQL. Any subsequent sample values which are nondetectable may be treated as equal to one-half ($1/2$) of the criterion value until the next test result appears above the PQL.

For waterbodies identified as impaired in the current Integrated Report, if sample values are nondetectable for a parameter whose criterion is below the PQL, then such value shall be deemed to be one-half ($1/2$) of the criterion value.

All sample values that are above the PQL shall be the reported values.

Magnitude of Exceedance

- For toxicants, if two or more samples exceed water quality criteria or screening levels by two orders of magnitude or more, the associated beneficial use is determined to be "not attained."
- For DO, if more than two samples in a stream are below 2 mg/L in a given year, the Fish & Wildlife Propagation beneficial use is determined to be "not attained."

Quality Assurance

Data collected for purposes of use support assessment shall be collected using documented programmatic quality assurance and quality control methods substantially in accordance with those required by "EPA Requirements for Quality Assurance Project Plans", EPA publication no. EPA/240/B-01/003 (March 2001).

The methods used shall include protections for sample integrity and the documentation of details on analysis methodologies.

Default Protocol

This method for determining beneficial use attainment should be used where another, more specific method is not provided.

Short Term Average Parameters

Short term average parameters are based on exposure periods of less than seven days, such as sample standards (agriculture beneficial use) and turbidity.

A beneficial use is considered *attained based on the default protocol for a given short term average parameter* if:

10% or fewer of the samples exceed the appropriate screening level or water quality criterion

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

A beneficial use is considered *not attained based on the default protocol for a given short term average parameter* if:

greater than 10% of the samples exceed the appropriate screening level or water quality criterion

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

Long Term Average Parameters

Long term average parameters are based on exposure periods of seven days or longer, such as yearly mean standards (agriculture beneficial use) and fish consumption water column numerical criteria.

A beneficial use is considered *attained based on the default protocol for a given long term average parameter* if:

each 2-year rolling average of the sample results does not exceed the long term average criterion or screening level

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

A beneficial use is considered *not attained based on the default protocol for a given long term average parameter* if:

any 2-year rolling average of the sample results exceeds the long term average criterion or screening level

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

Fish & Wildlife Propagation (F&WP)

The methodology for the Fish & Wildlife Propagation (F&WP) beneficial use consists of eight types of data, each with its own attainment methodology.

The F&WP beneficial use is considered *attained* if:

in the absence of biological data, all six chemical methodologies (DO, Toxicants, pH, Turbidity, Oil & Grease, and Toxicants Not Assessed & Not Likely to Occur or Violate Criteria) result in a determination of *attained*

or

in the absence of adequate data for all six chemical data types, the biological data methodology results in a determination of *attained*.

The F&WP beneficial use is considered *not attained* if **any** of the eight data type methodologies result in a determination of *not attained*.

Dissolved Oxygen (DO)

Streams

A minimum of ten (10) samples is required to make an attainment determination.

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* if 10% or fewer of the samples from a waterbody have a DO concentration of less than:

- 4.0 mg/L from April 1 - June 15 (3.0 mg/L from June 16-March 31) for habitat limited aquatic communities (HLAC)
- 6.0 mg/L from April 1 - June 15 (5.0 mg/L from June 16 – March 31) for warm water aquatic communities (WWAC)
- 7.0 mg/L from March 1 - May 31 (6.0 mg/L for the remainder of the year) for trout fisheries and cool water aquatic communities (CWAC)

The F&WP beneficial use is considered to be *undetermined* if the sample results show:

- More than 10% of samples are less than 6.0 mg/L from April 1 – June 15 (5.0 from June 16 – October 15) and 10% or fewer of the samples are less than 5.0 mg/L from April 1 – June 15 (4.0 from June 16 – October 15) for warm water aquatic communities (WWAC)
- More than 10% of samples are less than 7.0 mg/L from March 1 – May 31 (5.0 from June 1 – October 15) and 10% or fewer of the samples are less than 5.0 mg/L from March 1 – May 31 (4.0 from June 1 – October 15) for trout fisheries and cool water aquatic communities (CWAC).

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* if more than 10% of the samples from a waterbody have DO concentrations less than the criteria listed below or if more than 2 samples in a given year are below 2 mg/L.

- 4.0 mg/L from April 1 – June 15 (3.0 from June 16 – March 31) for habitat limited aquatic communities (HLAC)
- 5.0 mg/L from October 16 – June 15 (4.0 mg/L from June 16 – October 15) for warm water aquatic communities (WWAC)
- 5.0 mg/L from June 1 – Oct 15 (6.0 mg/L during the remainder of the year) for trout fisheries and cool water aquatic communities (CWAC)

Lakes

For lakes or arms of 250 acres or less, a minimum of ten (10) samples is required to make an attainment determination. For lakes or arms of greater than 250 acres, a minimum of twenty (20) samples is required.

The Warm Water Aquatic Community subcategory of the Fish and Wildlife Propagation designated use for a lake shall be deemed to be attained with respect to dissolved oxygen if both the Surface Criteria and the Water Column Criteria listed below are satisfied. If either the Surface or Water Column criteria produce an undetermined result, the lake beneficial use will be considered *undetermined* with respect to dissolved oxygen. If either the Surface or Water Column criteria produce a result of not attained, the Fish and Wildlife Propagation designated use will be considered *not attained* with respect to dissolved oxygen.

Surface Criteria for WWAC Lakes

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* 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 – June 15 (5.0 mg/L during the remainder of the year).

The F&WP beneficial use is considered *undetermined with respect to dissolved oxygen* 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 June 16 through October 15 (6.0 mg/L from April 1 – June 15)

and

10% or less of the samples are less than 4 mg/L from June 16 through October 15 (5.0 mg/L from April 1 – June 15),

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* 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 4.0 mg/L from June 16 – October 15 (5.0 mg/L during the remainder of the year).

Water Column Criteria for WWAC Lakes

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* if:

Less than 50% of the lake volume has a DO concentration below 2.0 mg/L

or

If no volumetric data is available, 50% or less of the water column of all sample sites in the lake have a DO concentration below 2.0 mg/L.

The F&WP beneficial use is considered *undetermined with respect to dissolved oxygen* if:

50% or more, but not greater than 70%, of the lake water column at any sample site has a DO concentration of less than 2.0 mg/L

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* if:

50% or more of the water volume has a DO concentration of less than 2.0 mg/L

or

If no volumetric data is available, more than 70% of the water column at any given sample site has a DO concentration of less than 2 mg/L.

Toxicants

A minimum of five (5) samples is required to make an attainment determination.

The following screening values shall be used to make attainment decisions for toxicants:

- the acute and/or chronic criteria for a given toxicant, as described in Appendix G, Table 2 of the Oklahoma Water Quality Standards, OAC 785:45
- the chronic ammonia toxicity value shown in Table 15 corresponding to the stream pH and temperature at the time of sampling

For metals, preference shall be given to attainment decisions based on dissolved metals in accordance with the procedures specified in OAC 785:46-15-5(h).

Acute Effects

The F&WP beneficial use is considered *attained with respect to an individual toxicant* if no more than one (1) of the samples have concentrations of a toxicant that exceed the acute criterion or screening value for that toxicant.

The F&WP beneficial use is considered not attained with respect to an individual toxicant if more than one (1) of the samples have concentrations of a toxicant that exceed the acute criterion or screening value for that toxicant.

Chronic Effects

The F&WP beneficial use is considered *attained with respect to an individual toxicant* if:

not more than one (1) of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value for that toxicant

or

not more than 10% of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value for that toxicant

The F&WP beneficial use is considered *not attained with respect to an individual toxicant* if more than 10% of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value.

TABLE 13. TEMPERATURE- AND PH-DEPENDENT SCREENING VALUES FOR AMMONIA

pH	Temperature (°C)									
	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74

7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179

pH

A minimum of ten (10) samples is required to make an attainment determination.

The F&WP beneficial use is considered *attained with respect to pH* if 10% or fewer of the samples fall outside the screening range of 6.5 (minimum) and 9.0 (maximum).

The F&WP beneficial use is considered *not attained with respect to pH* if more than 10% of the samples fall outside the screening range of 6.5 (minimum) and 9.0 (maximum).

Biological Data

Following are two stand-alone methods for determining impairment based on biological samples—one for benthic macroinvertebrates (BMI) and another for fish. Each acts independent of the other because of the availability of separate cause codes for bioassessments. A cause code does exist for a combined bioassessment, but that particular scenario is not addressed in this methodology. Oklahoma has implemented narrative biocriteria for fish in its Use Support Assessment Protocols (OAC 785:46-15-5(i)), and these biocriteria are included as part of the assessment tool outlined below. However, the same section (OAC 785:46-15-5(i)(1)) states “If data demonstrate that an assemblage of fish or macro invertebrates from a waterbody is significantly degraded, according to 785:45-5-12(f)(5), from that expected for the subcategory of Fish and Wildlife Propagation designated in OAC 785:45 for that waterbody, then that subcategory may be deemed by the appropriate State environmental agency to be not supported.” Because of this, it is imperative that a method be developed to assess the large amount of BMI data collected to date and in the future. Also, it is important to utilize fish data across the State, when the fish biocriteria is either inconclusive (i.e., “undetermined”) or unavailable in a particular ecoregion or for a particular aquatic life designation within a promulgated ecoregion. For this reason an alternative fish assessment method has been developed and included in the following methodology. However, the Oklahoma biocriteria trumps the alternative method whenever it returns an assessment of attaining or not attaining.

Biological criteria have been established for various ecoregions in Oklahoma under OAC 785:46-15-5 (see Figure 4). These biocriteria must be referenced when making Fish and Wildlife beneficial use attainment determinations for fish in accordance with method below. OAC 785:46 Appendix C Index of Biological Integrity should be used for these ecoregions. This methodology is only applicable to wadable streams.

For waterbodies where no biological data is available, a resulting determination of “*attained*” with respect to all six chemical data type methodologies (DO, pH, Toxicants, Turbidity, Oil & Grease, and Toxicants Not Assessed & Not Likely to Occur or Violate Criteria) may serve to determine attainment of the F&WP beneficial use.

For waterbodies where *only* biological data is available, a determination of “*attained*” with respect to biological assessment(s) (in accordance with method below) may serve to determine attainment of the F&WP beneficial use.

Determinations of attainment of F&WP for both/either fish and/or benthic macroinvertebrates may be made in accordance with the following methods:

Assessment of F&WP Beneficial Use with Fish Collection Data

- Data requirements: Fish collections must be made in accordance with methods outlined in OWRB Technical Report 99-3, Oklahoma Conservation Commission Standard Operating Procedures (SOPs), Oklahoma Water Resources Board SOPs or equivalent and collected under an EPA approved Quality Assurance Project Plan. Collections should be made during a defined seasonal index period (index) in flowing water. A maximum of 5 collections are allowed for assessment determination for the reporting period (1 index period per year, 5 year reporting period).

Definitions:

- **Collection** – all fish obtained from a single site on a given date.
- **Index** – one seasonal period prescribing defined temporal limits for collection. (Late Spring – Early Fall index – May 15-October 31).
- Collections must be completely enumerated and identified to species. Taxonomic identifications should be performed using keys contained in The Fishes of Oklahoma, The Fishes of Arkansas, or The Fishes of Missouri. Adequate voucher samples should be maintained through specimen collections and/or photo-documentation per SOPs in Section 1.
- Collections must be analyzed using an Index of Biotic Integrity (IBI) approach (EPA, 1989, 1999) comprised of the seven following metrics: number of species, number of sensitive benthic species, number of sunfish species, number of intolerant species, proportion tolerant individuals, proportion insectivorous cyprinid individuals, proportion individuals as lithophilic spawners. The metrics must be derived and scored for each sample in accordance with methods outlined in EPA's Rapid Bioassessment Protocol (EPA 1989 and 1999) (see Table 14). Consult ecoregion reference metric scores (available from OWRB or OCC Water Quality Division offices) as necessary to facilitate scoring process. This method will be known as "OKIBI".

TABLE 14. MATRIX TO DETERMINE METRIC SCORES FOR EACH SAMPLE OF FISH

Metrics	5	3	1
Number of species*	>67%	33-67%	<33%
Number of sensitive benthic species*	>67%	33-67%	<33%
Number of sunfish species*	>67%	33-67%	<33%
Number of intolerant species*	>67%	33-67%	<33%
Proportion tolerant individuals**	<10%	10-25%	>25%
Proportion insectivorous cyprinid individuals**	>45%	20-45%	<20%
Proportion individuals as lithophilic spawners**	>36%	18-36%	<18%

* Sample metric divided by the reference metric for the applicable ecoregion

** Score based on actual value

1. Metric scores for each collection must then be summed to compute a "total OKIBI score." Scores for multiple collections made during the same index for a given year must be averaged to render a single per year score. Total OKIBI scores will then be compared to reference OKIBI scores (available from OWRB or OCC Water Quality Division offices) for the appropriate ecoregion in order to determine final fish support status (Table 15) (adapted from EPA RBP, 1989):

TABLE 15. BIOLOGICAL CONDITION AND ASSOCIATED SUPPORT STATUS BASED UPON FISH COLLECTIONS

% of Reference OKIBI score	Biological Condition Category	Sample Support Status
>80%	Not impaired	Attaining
50-80%	Possible impairment to no impairment	Undetermined
<50	Impaired	Not Attaining

2. Overall fish support status for the OKIBI is determined considering support status of all collections obtained within the reporting period as follows:
 - a. If only one sample was collected - support status stands as called
 - b. If two or more samples were collected:
 - Determine support status based on majority
 - In instances when no majority exists, the final result is undetermined
3. Use Table 16 to determine the final Fish and Wildlife Propagation (FWP) beneficial use assessment for fish. In the following table, fish biocriteria that have been promulgated in Oklahoma's USAP are referred to as OKBIOCRIT, while the method outlined in this document is referred to as OKIBI. *You must determine an OKBIOCRIT result for all collections where applicable. The OKIBI can only be used when the OKBIOCRIT returns an undetermined result or is not promulgated in rule for a particular ecoregion or aquatic life tier.*

TABLE 16. FINAL FWP USE ASSESSMENT BASED UPON FISH COLLECTIONS

OKBIOCRIT Result	OKIBI Result	Final Fish Assessment
Not Available	Attaining	Attaining
Not Available	Not Attaining	Not Attaining
Not Available	Undetermined	Undetermined
Undetermined	Attaining	Attaining
Undetermined	Not Attaining	Not Attaining
Undetermined	Undetermined	Undetermined
Attaining	Undetermined	Attaining
Not Attaining	Undetermined	Not Attaining

Assessment of F&WP Beneficial Use with Benthic Macroinvertebrate Data

1. Data requirements: Macroinvertebrate collections must be made in accordance with methods outlined in OWRB Technical Report 99-3, Oklahoma Conservation Commission (OCC) Standard Operating Procedures (SOPs), Oklahoma Water Resources Board (OWRB) SOPs or equivalent and collected under an EPA approved Quality Assurance Project Plan. Collections should be made during defined seasonal index periods (index) in flowing water and target best available habitats in the following order of importance: rocky riffles, streamside root masses, and woody debris. A minimum of four macroinvertebrate samples (collected over at least a two year period) is required for assessment. A maximum of 10 collections are allowed for the reporting period (2 index periods per year, 5 year reporting period).

Definitions:

- **Sample** – macroinvertebrates resulting from a single habitat type (riffle, vegetation, wood) from a single site on a given date.
- **Collection** – all samples obtained from a single site on a given date. A single collection may include up to three samples, one from each habitat type.

- **Index** – one of two seasonal periods prescribing defined temporal limits for collection. (Summer index – June 1-September 15; Winter Index – January 1-March 15th).
2. Samples must be picked in accordance with EPA approved SOPs to achieve either a 100 or 300 organism sub-sample to be sent to professionals for identification to genus (when possible). Taxonomic identifications should be performed using keys by Merritt and Cummins, Pennak, or other regional guides with justification.
 3. Samples must be analyzed using an Index of Biotic Integrity (IBI) approach (EPA, 1989, 1999) comprised of the six following metrics: total number of taxa, number of EPT taxa, proportion EPT taxa, proportion dominant two taxa, modified Hilsenhoff Biotic Index (HBI), and Shannon Diversity. The metrics must be derived and scored for each sample (e.g., summer-riffle, winter-wood) in accordance with methods outlined in EPA's Rapid Bioassessment Protocol (EPA 1989 and 1999) (see Table 17). Consult ecoregion reference metric scores (available from OWRB or OCC Water Quality Division offices) as necessary to facilitate scoring process.

TABLE 17. MATRIX TO DETERMINE METRIC SCORES FOR EACH SAMPLE OF MACROINVERTEBRATES

Metrics	6	4	2	0
Taxa Richness*	>80%	60-80%	40-60%	<40%
Modified HBI**	>85%	70-85%	50-70%	<50%
EPT/TotalI***	>30%	20-30%	10-20%	<10%
EPT Taxa*	>90%	80-90%	70-80%	<70%
% Dominant 2 Taxa***	<20%	20-30%	30-40%	>40%
Shannon-Weaver***	>3.5	2.5-3.5	1.5-2.5	<1.5

* sample metric divided by the reference metric for the applicable ecoregion

** reference metric value for the applicable ecoregion divided by the sample metric value

***score based on actual value

4. Metric scores for each sample must then be summed to compute a "total IBI score." Scores for multiple collections made during the same index for a given year must be averaged to render a single index-habitat score per year (e.g., only one score for summer-riffle or winter-wood per year). Total IBI scores will then be compared to reference IBI scores (available from OWRB or OCC Water Quality Division offices) for the appropriate index-habitat and ecoregion to determine final macroinvertebrate support status (Table 18) (adapted from the EPA RBP, 1989). If the macroinvertebrate sample was made as part of a probabilistic monitoring project use Table 19 to determine sample support status.

TABLE 18. BIOLOGICAL CONDITION & ASSOCIATED SUPPORT STATUS BASED UPON MACROINVERTEBRATE SAMPLES

% of Reference IBI score	Biological Condition Category	Sample Attainment Status
>80%	Non-impaired	Attaining
50-80%	Possible impairment to no impairment	Undetermined
<50	Impaired	Not attaining

TABLE 19. BIOLOGICAL CONDITION & ASSOCIATED SUPPORT STATUS BASED UPON PROBABILISTIC MACROINVERTEBRATE SAMPLES

% of Reference IBI score	Biological Condition Category	Sample Attainment Status
>85%	Non-impaired	Attaining
40-85%	Possible impairment to no impairment	Undetermined
<40	Impaired	Not attaining

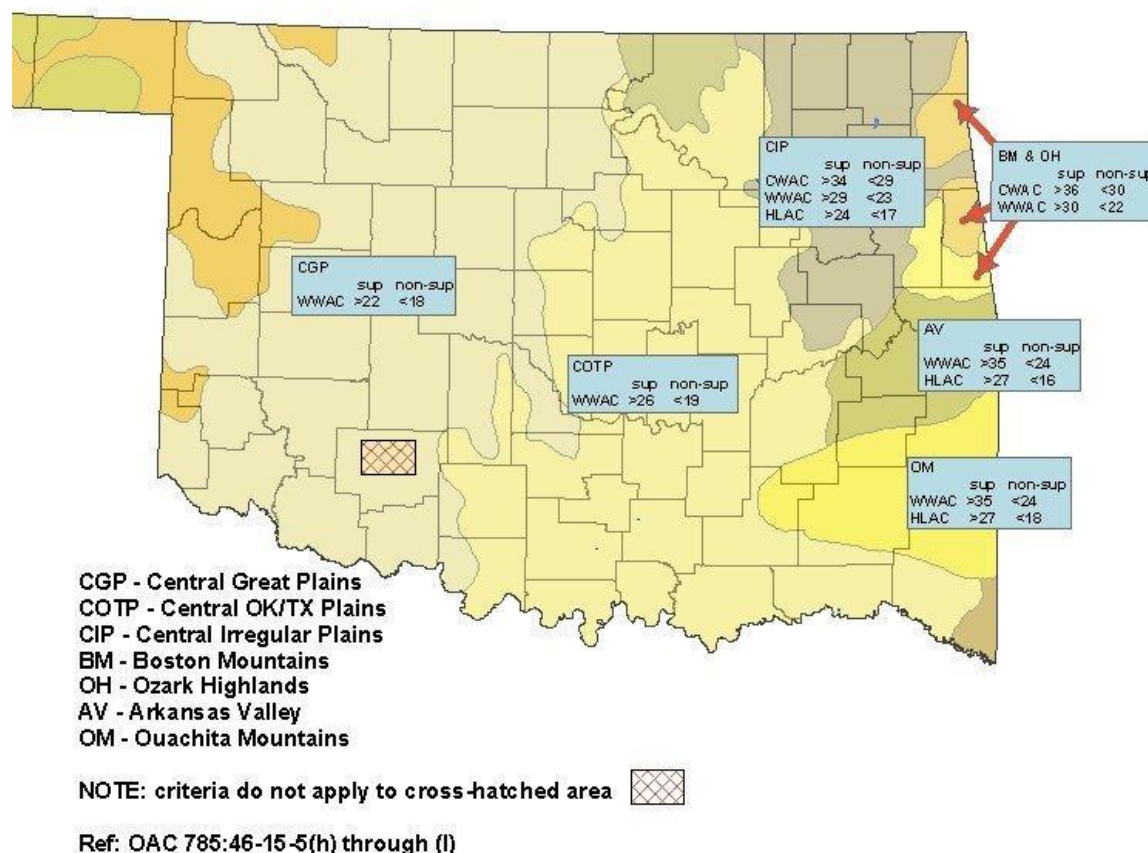
5. With support status of samples determined, render macroinvertebrate support status for each **collection** as follows:

- a. If a riffle sample was collected, use the support status of the riffle sample to represent the collection.
 - b. If riffle sample status is "undetermined," then the support status of the collection will be determined by the better of vegetation or wood scores.
 - c. If all samples are "undetermined," then the macroinvertebrate support status for the collection is "undetermined."
6. A minimum of four macroinvertebrate samples (collected over at least a two year period) is required for assessment. Overall Fish and Wildlife Propagation (FWP) beneficial use attainment for macroinvertebrates is determined considering support status of all collections obtained within the reporting period in accordance with Table 20.

TABLE 20. FINAL FWP USE ATTAINMENT DETERMINATION BASED UPON MACROINVERTEBRATES.

Minimum number of "Attaining" collections	Number of "Undetermined" collections	Number of "Not Attaining" collections	Final Macroinvertebrate Assessment
2	any	0	Attaining
any	any	1	Undetermined
any	any	2 or more	not attaining

FIGURE 4. ECOREGIONS WHERE BIOCRITERIA HAVE BEEN ESTABLISHED



Turbidity

A minimum of ten (10) samples collected under seasonal base flow conditions is required to make an attainment determination.

The following numerical criteria shall be used to make attainment decisions for turbidity:

- 10 Nephelometric Turbidity Units (NTUs) for cool water aquatic communities and trout fisheries
- 25 NTUs for lakes
- 50 NTUs for other surface waters

The F&WP beneficial use is considered *attained with respect to turbidity* if:

10% or fewer of the samples exceed the appropriate screening level or water quality criterion.

or

the numerical criteria yield a determination of "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

The F&WP beneficial use is considered *not attained with respect to turbidity* if:

Greater than 10% of the samples exceed the appropriate screening level or water quality criterion

or

the numerical criteria yield a determination of "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

The determination of seasonal base flow conditions should be made in accordance with the following methods:

- For recording gaged sites (including ones with gages at the site or near to the site with no intervening inflows):
 1. Calculate the mean and median discharge of the 30 days surrounding the sampling event.
 2. If Q at sampling event not greater than median—**considered baseflow conditions, use in assessment**; OR
If Q at sampling event greater than median—look at mean
 3. If Q at sampling event not greater than mean, go to step 4; OR
If Q at sampling event greater than mean - **considered above baseflow conditions, exclude from assessment**.
 4. If Q is greater than the median but not the mean, use the weight of evidence method described below.
- For non-recording gaged or ungaged sites use a weight of evidence of coincident parameters (e.g., instantaneous discharge, turbidity, conductivity, total phosphorus, and total suspended solids), relevant weather station information (as available and applicable), and observational data (e.g., presence of a defined periphyton line, site comments, quantitative flow rating such as "elevated" or "heavy"). Perform the following steps:
 1. Compile concurrent turbidity, turbidity cause qualifier (i.e., abiotic, biotic), Inst. Q, TP, TSS, conductivity, and site observation data (which includes qualitative stream stage and site comments). Sort by site and date.

2. For each site, move through the data looking for inflections in Inst. Q supported by similar inflections in concurrent parameters (e.g., increase in TP, TSS; decrease in conductivity). Quite a few of the elevated flows are indicated by the qualitative stream stage and site comments (e.g., "recent rainfall"), so the determination is immediate. Mark these events as exceeding baseflow.
3. Where applicable and practical, compare analysis to nearby mesonet data. This cannot be used to preclude the above analysis but can be used as a confirmation step to add to the weight of evidence approach.
4. Remove the "elevated flows" and perform the analysis.

For sites where all turbidity values are below the applicable criterion, determination of events exceeding baseflow conditions is not necessary.

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The F&WP beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The F&WP beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Sediment

The F&WP beneficial use is considered *attained with respect to sediment* if the use is also attained with respect to biological criteria.

If the biological data assessment results in a determination of "not attained," a habitat assessment must be conducted using the habitat assessment protocols found in OWRB Technical Report TRWQ2001-1, "Unified Protocols for Beneficial Use Assignment for Oklahoma Wadable Streams."

The results of the habitat assessment shall then be compared to either historical conditions or regional reference conditions in order to determine attainment with respect to sediment. The method for establishing reference conditions shall meet the following requirements:

- a minimum of five (5) reference streams or reaches shall be assessed
- the reference streams or reaches must be within the same ecoregion as the test stream
- the reference streams or reaches must be within streams with similar flow regimes no more than two (2) stream orders(as defined in 46:1-2) removed from the test stream
- the reference streams or reaches shall be selected from the least impacted streams within the ecoregion whose watersheds contain soils, vegetation, land uses, and topography typical of the watershed of the test stream.

The F&WP beneficial use is considered *not attained with respect to sediment* if any of the following habitat parameters deviate from the reference conditions by the specified amount:

- Pool Bottom Substrate – the total percent of clay, silt, and loose sand in the test stream is increased by more than 30% over the reference condition

- Cobble Embeddedness – cobble embeddedness is increased by 15% or more over the reference condition
- Point Bars and/or Islands – reach length percentage containing fresh (non-vegetated) point bars and/or islands is 20 or more percentage points above that of the reference condition
- Deep Pools – percentage of reach dominated by deep (0.5 meters or more) pools is less than 70% of that of the reference condition

If all of the habitat parameters identified above deviate from the reference conditions by less than the amounts specified, then the Fish and Wildlife Propagation beneficial use is not impaired due to suspended and bedded sediments.

Toxicants Not Assessed and Not Likely to Occur or Violate Criteria

The data required to assess every water quality criterion – specifically toxicants – associated with the F&WP use do not always exist for a particular waterbody. The following procedure may be used to determine attainment of the F&WP beneficial use with respect to toxicants that have not been assessed, but are not likely to occur or violate criteria.

The following three types of information must be available in order to apply this procedure:

1. The results of a review of watershed-specific landuse and historical data that yields patterns of use or nonuse of the toxicant(s) not assessed.
2. A result of either “attained” or “not enough information” for the Toxicants methodology.
3. A result of either “attained” or “not enough information” for the Biological Data methodology.

NOTE: The decision matrix below may be used to determine *attainment of the F&WP beneficial use with respect to the unassessed toxicants* **only if** the landuse and historical data review yields no indication that the unassessed toxicants are present or likely to impact the waterbody in question.

TABLE 21. DECISION MATRIX FOR TOXICANTS NOT ASSESSED OR LIKELY TO OCCUR OR VIOLATE F&WP CRITERIA

		Biological Data	
		Attained	Not Enough Information
Toxicants	Attained	F&WP Attained With Respect To Unassessed Toxicants	F&WP Attained With Respect To Unassessed Toxicants
	Not Enough Information	F&WP Attained With Respect To Unassessed Toxicants	Not Enough Information to Determine F&WP Attainment With Respect to Unassessed Toxicants

Primary Body Contact Recreation (PBCR)

A minimum of ten (10) samples is required to make an attainment determination. Samples must be taken during the recreation period of May 1 – September 30.

Geometric means will be calculated using all data meeting the temporal data requirements. The geometric means will be compared to the appropriate screening value.

Escherichia coli (E. coli)

The PBCR beneficial use is considered *attained with respect to E. coli* if:

the geometric mean of the samples does not exceed 126 colonies/100 mL

The PBCR beneficial use is considered *not attained with respect to E. coli* if:

the geometric mean of the samples exceeds 126 colonies/100 mL

Enterococci

The PBCR beneficial use is considered *attained with respect to Enterococci* if:

the geometric mean of the samples does not exceed 33 colonies/100 mL

The PBCR beneficial use is considered *not attained with respect to Enterococci* if:

the geometric mean of the samples exceeds 33 colonies/100 mL

Secondary Body Contact

Attainment for the SBCR beneficial use is identical to the PBCR attainment methodology, but using five times (5x) the PBCR numerical criteria and screening levels.

Public and Private Water Supply (PPWS)

In order to determine attainment of the PPWS beneficial use, samples must be taken at the point of a drinking water intake.

Toxicants

A minimum of ten (10) samples is required to make an attainment determination.

The PPWS beneficial use is considered *attained with respect to any individual toxicant* for which there is a water quality criterion established if:

10% or fewer of the samples have concentrations of a toxicant that exceed the criterion for that toxicant

and

no drinking water use restrictions related to source water contamination are in effect

The PPWS beneficial use is considered *not attained with respect to any individual toxicant* for which there is a water quality criterion established if:

more than 10% of the samples have concentrations of a toxicant that exceed the criterion for that toxicant

or

a drinking water use restriction related to source water contamination is in effect

Total Coliform

A minimum of ten (10) samples is required to make an attainment determination.

The following numerical criterion shall be used to make attainment decisions for bacteria:

- 5000 colonies/100 mL

The PPWS beneficial use is considered *attained with respect to bacteria* if:

the numerical criterion yields a determination of "fully supporting" using the default protocol

or

the numerical criterion yields a determination of "fully supporting but threatened" using the default protocol if the threat will not yield a determination of other than fully supporting within two years of the determination

or

the Primary Body Contact Recreation use is attained.

The PPWS beneficial use is considered *not attained with respect to bacteria* if:

the numerical criterion yields a determination of "not supporting" using the default protocol

or

the numerical criterion yields a determination of "fully supporting but threatened" using the default protocol **if** the threat will yield a determination of other than fully supporting within two years of the determination.

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The PPWS beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The PPWS beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Parameters Not Assessed and Not Likely to Occur or Violate Criteria

The data required to assess every water quality criterion associated with PPWS does not always exist for a particular waterbody. In those cases, the following procedure should be followed in order to make an attainment decision.

For parameters not assessed or which are not likely to occur or violate criteria, attainment decisions should be made based on two kinds of information:

1. the results of analysis of chemical-specific parameters routinely monitored by the State's Beneficial Use Monitoring Program (BUMP) as compared to State criteria associated with PPWS
2. the results of a review of watershed-specific landuse and historical data that yields patterns of use for the pollutant in question

The PPWS beneficial use is considered *attained with respect to unassessed parameters* if:

the waterbody is attaining the PPWS use for BUMP parameters according to the Toxicants section of this listing methodology

and

no suspicion of the presence of the unassessed parameters exists based on landuse and historical data review

Chlorophyll- α and Phosphorus

Certain water supplies have specific criteria for chlorophyll- α and/or total phosphorus as specified in OAC 785:45-5-10(7) and (8). Attainment of these criteria will be evaluated using the specified criteria and the long-term average default protocol.

Emergency Water Supply (EWS)

All waterbodies designated with the Emergency Water Supply beneficial use shall be deemed to be attaining the beneficial use for all water quality related issues.

Agriculture

Total dissolved solids (TDS)

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to TDS* if:

no TDS sample exceeds 700 mg/l

or

the mean of all TDS samples does not exceed the yearly mean standard (YMS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

and

10% or fewer TDS samples exceed the sample standard (SS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

The Agriculture beneficial use is considered *not attained with respect to TDS* if:

At least one TDS sample exceeds 700 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

or

the mean of all samples exceeds the yearly mean standard (YMS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

Chlorides

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to chlorides* if:

no chloride sample exceeds 250 mg/l

or

the mean of all samples does not exceed the yearly mean standard (YMS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

and

10% or fewer samples exceed the sample standard (SS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

The Agriculture beneficial use is considered *not attained with respect to chlorides* if:

At least one chloride sample exceeds 250 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

or

the mean of all samples exceeds the yearly mean standard (YMS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

Sulfates

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to sulfates* if:

no sulfate sample exceeds 250 mg/l

or

the mean of all samples does not exceed the yearly mean standard (YMS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

and

10% or fewer samples exceed the sample standard (SS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

The Agriculture beneficial use is considered *not attained with respect to sulfates* if:

At least one sulfate sample exceeds 250 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria

or

the mean of all samples exceeds the yearly mean standard (YMS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria.

Navigation

All waterbodies designated with the Navigation beneficial use shall be deemed to be attaining the beneficial use for all water quality related issues.

Aesthetics

Nutrients

The Aesthetics beneficial use is considered *attained with respect to nutrients* if a nutrient impairment study yields a result of "fully supporting."

The Aesthetics beneficial use is considered *not attained with respect to nutrients* if a nutrient impairment study yields a result of "impaired."

Only a nutrient impairment study may be used to make a determination of *not attained* for aesthetics with respect to nutrients.

Wadable Streams

The aesthetics beneficial use for wadable streams is considered *attained with respect to nutrients* if application of the dichotomous process or application of the alternative to dichotomous process specified in OAC 785:46-15-10 yields a result of "not threatened."

Lakes and Nonwadable Streams

The aesthetics beneficial use for lakes and nonwadable streams is considered *attained with respect to nutrients* if planktonic chlorophyll-a values in the water column indicate a Carlson's Trophic State Index of less than 62.

Phosphorus

The phosphorus water quality standard applies to waters designated as a Scenic River.

A minimum of ten (10) samples is required to make an attainment determination. Samples must meet the data requirements of OAC 785:46-15-10(h)(2).

Attainment decisions will be made using the procedure specified in OAC 785:46-15-10(h).

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The aesthetics beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The aesthetics beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Fish Consumption

The Fish Consumption beneficial use is considered *attained* if:

the numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(b)] yields a determination of "fully supporting" using the default protocol for long-term average numerical parameters

or

the numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(b)] yields a determination of "fully supporting but threatened" using the default protocol for long-term average numerical parameters if the threat will not yield a determination of other than fully supporting within two years of the determination.

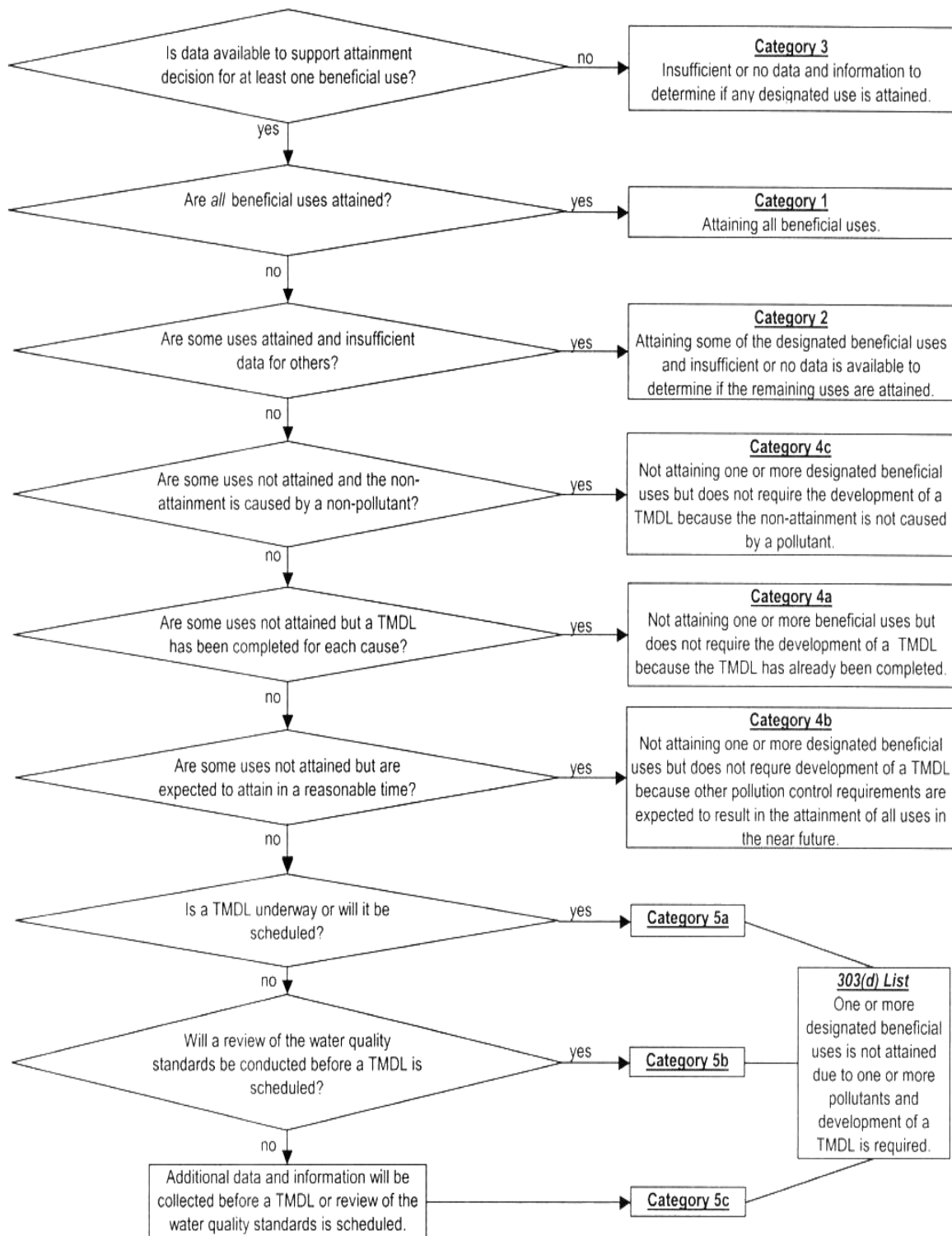
The Fish Consumption beneficial use is considered *not attained* if any of the following conditions apply:

- The numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(B)] yields a determination of "not supporting" or "partially supporting" using the default protocol for long-term average numerical parameters.
- a site-specific consumption restriction is imposed
- a site-specific fish or shellfish ban is in effect for a sub-population thereof
- a site-specific aquatic life closure is in effect
- a site-specific "no consumption" advisory is in effect

Category Decision Methodology

The Integrated Water Quality Report contains five categories that describe different levels of beneficial use attainment in each of the State's waters. Each waterbody should be assessed for attainment of each of its individual designated beneficial uses using the methodology outlined above. Following that assessment, the decision tree in Figure 5 below should be used to assign each waterbody to an appropriate category.

FIGURE 5. INTEGRATED REPORT CATEGORY DECISION TREE



Causes of Non-Attainment

The previous methodology outlines the procedures for determining attainment of each designated beneficial use assigned to a waterbody. Causes of non-attainment must also be included in the State's Integrated Water Quality Assessment Report.

The causes and cause codes shown in Table 17 should be applied where applicable to each waterbody upon making a determination of non-attainment for any given designated beneficial use or subcategory of that use. Additional cause codes may be added to the State's Integrated Report in order to provide for numerical criteria in the State's Water Quality Standards not already represented with a cause code.

Sources of Non-Attainment

Sources are the activities, facilities, or conditions that contribute pollutants or stressors resulting in impairment of designated uses in a waterbody.

Determining the sources of designated use impairment can be a difficult process. Ambient monitoring data can give good evidence of the causes of impairment. In some cases, field observations can provide information on obvious, nearby problems; e.g., land use, substrate, and habitat may provide a basis for identifying sources. This is especially the case for "hydromodification" sources.

In most cases, additional information is needed – watershed land use inventories, records of permit compliance, locations of areas with highly erodible soils, areas with poor BMP (best management practice) implementation, measurements of in-place contaminants, or loadings from atmospheric transport or ground water.

For some waterbodies, potential non-point sources have been assigned to a cause using GIS data. Initially, an extensive list of potential sources for each cause is compiled. Geographical information such as the location of permitted activities (e.g., NPDES sources, CAFOs, oil & gas wells) and land use information (e.g., roads, pastures, cropland, municipal boundaries) is then compared to each watershed. Subsequently, potential sources not indicated by the geographic data are removed from the list of potential sources for a watershed. Potential sources not eliminated by the geographic information remain on the list as a potential source of impairment for waterbodies in the watershed.

This method of assigning potential sources has not been applied to all waterbodies and/or causes on the 2008 303(d) list. The intent is to use this methodology to assign potential sources to all 303(d) waterbodies for subsequent 303(d) lists.

A partial list of potential sources is shown in Table 18. Other source codes may be added as the need arises.

TABLE 22. CAUSE CODES

Cause	Cause Code
Ammonia (Unionized) - Toxin	91
Arsenic	96
Barium	104
Cadmium	127
Chloride	138
Chlorophyll- α	150
Chlorpyrifos	153
Chromium (total)	154
Color	160
Copper	163
DDT	214
Diazinon	187
Dieldrin	198
Enterococcus	215
Escherichia coli	217
Fishes Bioassessments (Streams)	230
Lead	267
Nitrates	302
Oil and Grease	317
Oxygen, Dissolved	322
Selenium	372
Sedimentation/Siltation	371
Silver	375
Sulfates	385
Temperature, water	388
Thallium	393
Total Dissolved Solids	399
Toxaphene	496
Fecal Coliform	400
Turbidity	413
Zinc	423
pH	441
Phosphorus (Total)	462

TABLE 23. SOURCE CODES

Potential Source	Source Code
Acid Mine Drainage	2
Agriculture	156
Animal Feeding Operations (NPS)	4
Atmospheric Deposition – Acidity	8
Atmospheric Deposition - Toxics	10
CERCLA NPL (Superfund) Sites	16
Clean Sediments	21
Discharges from Biosolids (SLUDGE) Storage, Application or Disposal	33
Discharges from Municipal Separate Storm Sewer Systems (MS4)	34
Dredging (E.g. for Navigation Channels)	38
Grazing in Riparian or Shoreline Zones	46
Highway/Road/Bridge Runoff (Non-construction related)	49
Impacts from Land Application of Wastes	59
Impacts from Abandoned Mine Lands (Inactive)	56
Impacts from Hydrostructure Flow Regulation/Modification	58
Industrial Point Source Discharge	62
Irrigated Crop Production	66
Land Application of Wastewater Biosolids (Non-agricultural)	68
Landfills	69
Leaking Underground Storage Tanks	70
Mine Tailings	82
Municipal (Urbanized High Density Area)	84
Municipal Point Source Discharges	85
Natural Sources	155
Non-irrigated Crop Production	87
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	92
Other Spill Related Impacts	97
Permitted Runoff from Confined Animal Feeding Operations (CAFOs) ¹	100
Petroleum/Natural Gas Production Activities (Legacy)	102
Rangeland Grazing	108
Releases from Waste Sites or Dumps	110
Residential Districts	111

Silviculture Harvesting	119
Spills from Trucks or Trains	124
Surface Mining	127
Source Unknown	140
Sources Outside State Jurisdiction or Borders	146
Total Retention Domestic Sewage Lagoons	128
Wastes from Pets	133
Wildlife Other than Waterfowl	136

TABLE 24. USEFUL INFORMATION IN DETERMINING SOURCES OF BENEFICIAL USE NON-ATTAINMENT

Source Category	Example Types of Information
<u>Industrial Point Sources</u>	<p>Permit compliance records</p> <ul style="list-style-type: none"> • analysis of DMRs • compliance monitoring or special monitoring in permits • WET or TIE bioassay tests <p>Monitoring/modeling studies</p> <ul style="list-style-type: none"> • upstream/downstream chemical, biological, and habitat monitoring • intensive surveys combined with WLA/TMDL modeling • complaint investigations • data from volunteer monitoring
<u>Municipal Point Sources</u>	<p>Permit compliance records</p> <ul style="list-style-type: none"> • analysis of routine DMRs • compliance monitoring or special monitoring in permits • WET or TIE toxicity bioassay tests <p>Monitoring/modeling studies</p> <ul style="list-style-type: none"> • upstream/downstream chemical, biological, and habitat monitoring • intensive surveys combined with WLA/TMDL modeling • complaint investigations • data from volunteer monitoring
<u>Combined Sewer Overflows (CSOs)</u>	<p>Permit compliance records</p> <ul style="list-style-type: none"> • records of nonachievement of targets for frequency of wet weather overflows • implementation of other minimum control and pollution prevention methods (as in EPA CSO Control Policy) <p>Monitoring/modeling studies</p> <ul style="list-style-type: none"> • upstream/downstream chemical, biological, or physical monitoring comparing wet weather and normal flow conditions • intensive surveys combined with WLA/TMDL modeling • complaint investigations

Source Category	Example Types of Information
<u>Agricultural Point Sources</u> (e.g., CAFOs)	<p>Permit compliance records</p> <ul style="list-style-type: none"> • observation of overflows from total retention (non-discharge) facilities • compliance with provisions for off-site disposal of animal wastes (e.g., land application, composting) <p>Monitoring studies</p> <ul style="list-style-type: none"> • upstream/downstream chemical, biological, or physical monitoring (especially for nutrients and pathogens) • complaint investigations
<u>Agriculture</u> (NPS)	<p>Information from monitoring and field observations (e.g., to document bad actors)</p> <ul style="list-style-type: none"> • edge of field monitoring of runoff from animal holding areas, cropped areas, or pastures • monitoring of inputs from irrigation return flows, sub-surface drains, or drainage ditches • proper installation of screens or other measures to avoid fish losses in drainage/irrigation ditches • serious rill or gully erosion in agricultural fields • sedimentation problems in agricultural watersheds • indications of unmanaged livestock in streamside management zones • complaint investigations or data from volunteer monitoring or inventories <p>Records on watershed BMP implementation status</p> <ul style="list-style-type: none"> • documented low implementation level (e.g., less than a 70% target) of recommended water quality BMPs • documented problems with specific agricultural operators <p>Modeling</p> <ul style="list-style-type: none"> • use of such models as AGNPS, SWAT or ANSWERS to estimate pollutant loads and improvement from BMP implementation • intensive surveys combined with WLA/TMDL modeling
<u>Silviculture</u> (NPS)	<p>Monitoring and field observations documenting instances of high sediment delivery to receiving waters</p> <ul style="list-style-type: none"> • BMPs not followed on logging road, skid paths, or stream crossings • BMPs not followed to protect streamside management zones • serious sedimentation problems (cobble embeddedness or interstitial D.O. problems) in watersheds that are largely silvicultural <p>Records on watershed BMP/management measure)</p> <ul style="list-style-type: none"> • implementation status • documented low implementation level of recommended water quality-oriented BMPs <p>Results of modeling or cumulative effects analyses</p> <ul style="list-style-type: none"> • use of such models as WRENS to estimate pollutant loads and likely improvement from BMP implementation • use of water temperature models to help quantify impacts on cold water fisheries • use of landscape analysis techniques (e.g., the RAPID method or Integrated Riparian Area Evaluation method) to document cumulative effects • intensive surveys combined with WLA/ TMDL modeling

Source Category	Example Types of Information
<u>Construction</u>	<p>Information from monitoring and field observations (primarily to document problem areas or bad actors)</p> <ul style="list-style-type: none"> • sedimentation problems documented in watersheds with major construction activity • complaint investigations and volunteer monitoring data <p>Information from sediment control management agencies</p> <ul style="list-style-type: none"> • records of implementation of sediment control measures
<u>Urban Runoff & Storm Sewers</u>	<p>Monitoring/modeling studies</p> <ul style="list-style-type: none"> • upstream/downstream chemical, biological, or habitat monitoring comparing wet weather and normal flow conditions near outfalls • special monitoring for BMP effectiveness-wet ponds, artificial wetlands, grass swales • intensive surveys combined with WLA/ TMDL modeling and catchment models such as SWMM • complaint investigations <p>Information from management agencies</p> <ul style="list-style-type: none"> • documented low implementation level of recommended/required water quality-oriented BMPs • documented problems with BMP operation and maintenance information from monitoring and field observations (primarily to document problem areas or bad actors)
<u>Resource Extraction (Petroleum)</u>	<p>Information from monitoring and field observations (primarily to document problem areas or bad actors)</p> <ul style="list-style-type: none"> • evidence of oil and brine spills affecting areas near receiving waters; elevated TDS, toxicity, oil and grease aesthetic impacts; increased erosion and sedimentation problems • complaint investigations and volunteer monitoring data <p>Electro-Magnetic (EM) surveys, land or helicopter (HEM) based</p> <ul style="list-style-type: none"> • Detect high conductivity/high cation/anion levels in soil • Detect high conductivity/high cation/anion levels in groundwater, up to ~60 m deep • High ion levels can be due to Na and Cl (natural, O&G brines), excess litter/fertilizer application, leaking waste pits, etc. <p>Information from petroleum management agencies monitoring data in streams, shallow wells, and springs in oilfield areas</p> <ul style="list-style-type: none"> • records of problems with spills, pipeline breaks, over-topping of pit berms, land application violations
<u>Resource Extraction (mainly surface mining)</u>	<p>Information from monitoring and field observations (primarily to document problem areas or bad actors)</p> <ul style="list-style-type: none"> • evidence of decreases in pH, toxicity from heavy metals, excessive sedimentation, or stream reaches with iron bacteria in watersheds with active mining • complaint investigations and volunteer monitoring data <p>Information from mining management agencies</p> <ul style="list-style-type: none"> • records of recurrent permit violations (e.g., over-berming of settling ponds, failure to contain leachates, or failure to revegetate or restore mined areas)

Source Category	Example Types of Information
<u>Land Disposal</u>	<p>Monitoring and field observations (primarily to document problem areas or bad actors)</p> <ul style="list-style-type: none"> • monitoring indicates leachate migration from disposal area or industrial or domestic leach field failures • complaint investigations and volunteer monitoring <p>Modeling</p> <ul style="list-style-type: none"> • solute transport or plume models (e.g., PRIZM) indicate high potential for pollutants to reach receiving water
<u>Hydromodification (dams, flow regulation)</u>	<p>Monitoring and field observations</p> <ul style="list-style-type: none"> • recurring problems with inadequate instream flows (e.g., dewatering of streams, reduced pollutant assimilation, unnatural water temperatures) • documented interference with fish migration and spawning movements (e.g., for such anadromous fish as salmon or rockfish but also for inland fish that seek spawning habitat outside lakes or large rivers) <p>Modeling</p> <ul style="list-style-type: none"> • analysis using PHABSIM or other instream flow models to document adverse impacts • analysis related to FERC permit renewal and State 401 Certification, habitat recovery plans under the ESA, or TMDL studies (e.g., problems with anoxic or nutrient-laden releases from hydrostructures)
<u>Hydromodification (channelization, dredging, removal of riparian vegetation, streambank modification, draining/filling of wetlands)</u>	<p>Monitoring (usually over considerable period of time) documenting adverse changes:</p> <ul style="list-style-type: none"> • severe channel downcutting or widening • elimination of vegetation in streamside management zones • excessive streambank erosion and sloughing • loss of significant wetland area in watershed • failure of wetland mitigation projects <p>Modeling studies</p> <ul style="list-style-type: none"> • decreases in pollutant assimilation from habitat modification • adverse impacts on hydrology, water temperatures, or habitat
<u>Natural</u>	<p>Monitoring and field observations of the presence of sources that are clearly not anthropogenic</p> <ul style="list-style-type: none"> • saline water due to natural mineral salt deposits • low DO or pH caused by poor aeration and natural organic materials • excessive siltation due to glacial deposits • high temperatures due to low flow conditions or drought <p>Note: the Natural Sources category should be reserved for waterbodies impaired due to naturally occurring conditions</p>

Prioritization of TMDL Development

After the final determination of beneficial use attainment is made, a four-level priority ranking for TMDL development will be established including waters targeted for TMDL development within the next two years (Priority 1). In accordance with EPA guidelines, priority determinations will take into account the severity of the impairments and the designated uses of the waters impacted. Waters in Category 5 (the State's 303(d) list) will be aggregated and prioritized according to their eleven digit hydrologic unit code (HUC11) watershed. The prioritization process will closely follow that used to develop the Unified Watershed Assessment except where changes are necessary due to programmatic and logistical differences between the two programs. Primary and secondary criteria were developed to evaluate and prioritize watersheds for TMDL development. The primary evaluation criteria used were the vulnerability of waters to degradation, the risks to public health and the threat to aquatic life.

A watershed's vulnerability for degradation was evaluated by first calculating the percentage of impaired waters for each HUC11 watershed based on the stream miles or equivalent stream miles (for lakes) listed as impaired divided by the total equivalent stream miles within the watershed. A Pollutant Priority Score was also developed and used based on a pairwise comparison matrix rank of all pollutant(s) and then calculating the mean of the values for those pollutants causing impairments within each watershed. The presence of protected waters or EQIP local emphasis areas were also used to evaluate watershed vulnerability.

The threat to public health was also considered in the prioritization by evaluating both the population served by Public Water Supplies (PWS) and number of PWS intakes in the watershed. In both cases the more population served and the higher the number of intakes the more weight given to the risks to public health.

In assessing of the threats to aquatic life within a watershed consideration was given to the presence of threatened or endangered species along with the area of waters of recreational and/or ecological significance listed in Appendix B of the Oklahoma Water Quality Standards. Calculating the percent change in wetland area for each HUC11 watershed along with the presence of priority wetlands designated by the United States Fish and Wildlife Service were also used to evaluate the threats to aquatic life.

The outline below summarizes both the primary and secondary criteria used to establish the TMDL priority for each HUC11 watershed.

- 1) Vulnerability of waterbodies to degradation**
 - a) Percent Stream Length/Lake Area Impaired
 - b) Pollutant Priority Score (Pairwise pollutant comparison rating)
 - c) Pristine Waters
 - i) Scenic Rivers
 - ii) Outstanding Resource Waters
 - iii) High Quality Waters
 - iv) Sensitive Water Supplies
 - d) EQIP Local Emphasis Area
- 2) Risks to public health**
 - a) Public Water Supply Customers
 - b) Public Water Supply Intakes
- 3) Threat to aquatic life and other water-dependent wildlife**
 - a) Presence of threatened and endangered species.
 - b) Area of Waters of Recreational and/or Ecological Significance (Appendix B)
 - c) Wetland Area
 - i) Presence of USFWS Priority Wetlands
 - ii) Change in Wetland Area

The priority ranking was established by giving each of the criteria above a ranking/points based on its overall importance. The criteria rankings or points were then totaled to give an overall score for each watershed. Table 20 below contains a more detailed summary of the actual weight given to each criterion.

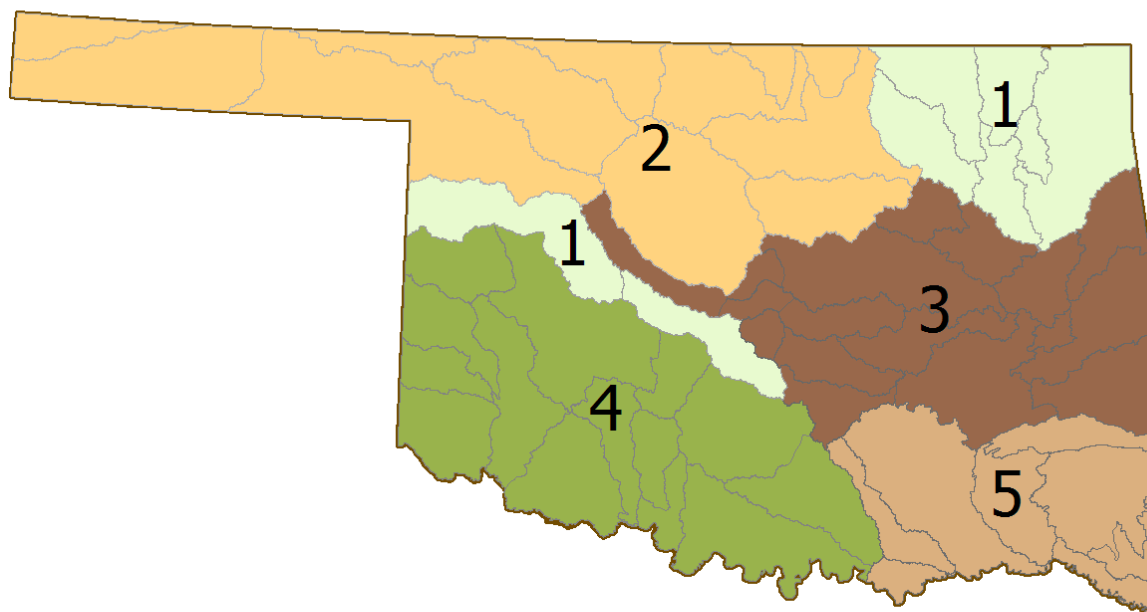
TABLE 25. TMDL PRIORITIZATION-POINT RANKING

Points	Total Percent Impaired	Pollutant Priority Score	Wetland Percent Change	USFWS T&E Species	USFWS Wetland Priority	EQIP Local Emphasis Area	Highest Designated Protected Waterbody	Percent Appendix B Areas	PWS Intakes in HUC	PWS Customers Served
15	85	> 75th Quartile	>20%	≥ 3			Scenic R or ORW		≥ 4	≥ 100,000
10	65	Median to 75th Quartile	>10% to 20%	2			HQW		3	99,999 to 10,000
5	45	25th Quartile to Median	>5 to 10%	1	Yes	Yes	SWS	Upper 50th Percentile	2	9,999 to 1,000
3	25	< 25th Quartile	1 to 5%					Lower 50th Percentile	1	999 to 1
0	0	No Impairments	Gain or <1%		No	No		None	0	0

Future Monitoring

Where practicable, the State's Rotating Basin plan (Figure 6) will be used to schedule data collection projects for Oklahoma Conservation Commission stream monitoring activities.

FIGURE 6. ROTATING BASIN PLAN WATERSHEDS BY YEAR



Coordination, Review, And Approval

DEQ has coordinated the development and submittal of the Integrated Water Quality Report. The process began with a notice and request for input sent to EPA Region 6, State environmental agencies, and Tribal environmental offices. A series of interagency meetings were conducted to review the listing methodology, review and discuss the draft list along with priority rankings and scheduling, and facilitate the exchange of information. The draft list will be circulated to EPA Region 6, and state environmental agencies for comment prior to release for public participation.

Public participation will be undertaken in two phases. When the process to identify candidate waters began, nominations from the public were solicited. This involved distribution of the mailout shown in Figure 7 in September, 2011. Once the final draft list is compiled, it shall be submitted for formal public review with notice and a 30-day comment period. Upon the close of the comment period, a responsiveness summary will be prepared. DEQ will coordinate public participation activities. After the public review period and finalization of the list, it will be formally submitted to EPA Region 6 for review and approval.

FIGURE 7. MAILOUT REQUEST FOR PUBLIC INPUT

Front

How to Provide Input

The Department of Environmental Quality invites you to provide water quality information to be considered in Oklahoma's Integrated Report. All information must be submitted either in writing or by E-mail before the end of the solicitation period. A summary of our decisions regarding the submitted information will be included in the final integrated report submitted to EPA Region 6.

Information should be directed to:
Joe Long
Water Quality Division
Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Information can also be submitted via E-mail to:
joe.long@deg.ok.gov

In order to be considered, all data and information must be received before 5:00 P.M. on Friday, September 30, 2011.

To Obtain More Information

Copies of the state's *Continuing Planning Process* and most recent 303(d) list and Integrated Report are available for download at:
http://www.deg.state.ok.us/WQDnew/305b_303d/index.html

Copies of the Use Support Assessment Protocols and the most recent *Oklahoma's Water Quality Standards* are available for download at:
<http://www.cwrp.state.ok.us/utl/rules/rules.php>

DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. Box 1677
OKLAHOMA CITY, OKLAHOMA 73101



Oklahoma's Integrated Water Quality Monitoring and Assessment Report

Including the 303(d) List of Impaired Waterbodies
•2012•

Public Solicitation for Water Quality Information
August 24, 2011

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BACKGROUND

The State of Oklahoma is in the process of developing the 2012 Integrated Water Quality Monitoring and Assessment Report. The Integrated Report will include the 303(d) list. This list is used to establish priorities for water quality improvement measures, including development of total maximum daily loads (TMDLs) which are water quality planning documents that establish specific goals for water quality conditions.

This solicitation notice serves as a means of gaining information about water quality from the public. Once the final draft report is compiled, a public review and 30-day comment period, culminating with a public meeting, will complete the second phase of public participation.

According to section 303(d)(1) of the Clean Water Act, states are to identify waters that do not meet water quality standards, even after technology-based controls required by the Act, and any other controls required by state or local authority, are in place. These waters are called "water quality-limited" and may require the development of a TMDL in order to establish additional controls or management measures necessary to achieve water quality standards.

Federal regulations governing the 303(d) listing process and TMDL development are found at 40 CFR Part 130. The US Environmental Protection Agency (EPA) provided guidance to the states for developing Integrated Reports (USEPA, 2011). The EPA emphasized that the Integrated Report guidance does not alter the statutory provisions in sections 305b and 303d of the Federal Clean Water Act, nor does it change existing rules governing development of Impaired Waterbodies Lists discussed above.

Oklahoma's process for developing/revising its Integrated Report is contained in the State's *Continuing Planning Process* (CPP) document which is available at:
http://www.deg.state.ok.us/wqdnew/pubs/2006_CPP_final.pdf.

SUBMITTING WATER QUALITY INFORMATION

The Water Quality Planning and Management regulations (40 CFR 130.7) require that "all existing and readily available water quality related data and information" must be evaluated in developing the 303(d) list. A complete list of criteria and information necessary for consideration is found in the CPP.

In general, water quality data must meet the following criteria to be considered:

- ◆ Ambient data (no greater than five years old for rivers and 10 years old for lakes) for parameters associated with designated uses.
- ◆ Only data collected before April 30, 2011 should be used in use attainment determinations.
- ◆ Impairments must be due to specific pollutants that are conducive to the TMDL process, and the specific source causing impairment must be noted in the submittal, if known.

All nominations must include the following information:

- ✓ **Waterbody Identification**
Oklahoma currently uses a 14-digit waterbody identification (WBID) system. If you do not know the appropriate WBID number for your particular segment, you can provide an

accurate legal description or latitude/longitude reference for your segment of concern. In addition, please supply the common name for the waterbody as it is listed on a United States Geological Survey (USGS) topographical map.

- ✓ **Justification for Listing Decision**
It is imperative that all attainment decisions are based on ample data and documentation to prove that water quality standards are impaired or not. Your submittal should include a summary of the data used to support the decision, the complete data set (or reference to the complete data set if it is contained in a published report), and an analysis showing water quality standards violation or attainment. *Oklahoma's Water Quality Standards, Use Support Assessment Protocols, and the Integrated Water Quality Report Listing Methodology* procedures in the CPP should be consulted and utilized in your justification and analysis.
- ✓ **QA/QC Procedures Used**
Data submitted should include information on sampling and analyses, including Quality Assurance and Quality Control (QA/QC) procedures used. DEQ will evaluate the QA/QC protocols used in gathering and analyzing the samples to decide if and how that data will be used. To be used, data must use QA/QC methods that are in accordance with "EPA Requirements for QA Project Plans" (QA/R5, May 2001).



You are receiving this notice because you are on the list to receive DEQ's biennial solicitation request for Water Quality Information.

If you are receiving this notice in error, are getting multiple notices, or do not want to receive future notices, please let us know.

If you are receiving this in paper form, please help save money and the environment by receiving the notice in PDF format via e-mail. Send your e-mail address to: karen.miles@deg.ok.gov

Groundwater Quality

Overview

Groundwater is an important natural resource in Oklahoma. There are twenty-one major groundwater basins in the State and approximately 150 minor basins. These major basins are used as primary source of community drinking water and are estimated to hold over 320 million acre-feet of fresh water. See Figure 8 for a detailed map of the "Major Groundwater Aquifers in Oklahoma".

The Oklahoma CAFO and Swine Feeding Operation (SFO) Acts puts measures into place that prohibit a hydrologic connection between generated wastewater and waters of the State. The SFO Act further states that samples of water from Licensed Managed Feeding Operations (LMFO) monitoring wells located around swine lagoons shall be collected by the ODAFF and tested at least annually. LMFOs licensed on or after August 1, 1998 had to install a monitoring "system" (leak detection or wells) before using the retention structure to store liquid wastes. The main goal of the monitoring program is to ascertain if groundwater resources at or near the LMFOs are being subject to any degradation as result of the operation of the facilities and storage of the liquid animal waste. The baseline data for the facilities serves as a reference point to potential change in groundwater quality over time. Beginning in the Fall of 1999 to present date, the Department has been involved with the annual sampling and evaluation of over 1,000 monitoring wells at swine LMFOs as required by provisions in the Act.

There are extensive produced water/brine groundwater plumes in some old oilfield areas due mainly to old spills that were never remediated, leaking unplugged wells, and to the former practice (now banned for over thirty five years) of dumping produced brines into "evaporation pits". Pollutants and saline water have migrated from these surface and subsurface sources into underlying soils and groundwater. Drinking water wells in the some areas have been rendered un-usable, and many streams are now being impacted by saline groundwater plumes that emanate from the old produced water and "evaporation pit" areas. Counties where this has been identified as a known or likely problem include Pottawatomie, Seminole, Kay, Oklahoma, Carter, Garvin, Garfield, and Stephens. Other areas have yet to be investigated.

Since 1996 the Corporation Commission has collected approximately 2500 groundwater samples near known and suspected oil and gas spill sites and/or in response to complaints from citizens in oil and gas field areas. These are taken in domestic water wells; in monitoring wells installed to investigate possible groundwater pollution; from water seeping into borings and dug trenches; and from springs and seeps where groundwater emerges at the surface. Samples are analyzed for TDS, chlorides, and sulfates, petroleum, metals, or other parameters as appropriate, in order to determine what actions are needed in each case. Corp Comm has also begun to list significantly impacted groundwater pollution sites in the OWRB's Appendix H, where the public and water well drillers can be apprised of areas where standard water well installation is inappropriate.

Corp Comm is also attempting to utilize this data in conjunction with surface water data to determine potential sources of watershed impairments and/or areas in which corrective action should be taken. For example, many of the salinity impacted streams found to date have no apparent surface source. However, ground water and spring/seep samples taken near some of these streams show that there is an adjacent subsurface brine plume, probably the source for the stream's excess salinity. If the source for each brine plume could be determined and remediated, the plume(s) could no longer carry pollutants to the streams and cause stream impairments. Corp Comm is using its current ground water sampling data for this purpose in a few areas, but does not yet have the funding to undertake extensive sampling near impaired streams to determine the potential groundwater sources for all impaired streams. Corp Comm is also beginning to obtain GPS locations on all oil and gas wells in the State in order to be able to accurately map well distribution and predict possible impacts.

In addition to groundwater sampling, Corp Comm funded a USGS test of a Helicopter borne Electro-Mag (HEM) tool in 25 (twenty-five) square miles in Carter and Stephens counties near salinity impaired streams. HEM can rapidly cover large areas to determine groundwater impairments and surface water/groundwater interaction. Saline polluted groundwater plumes in aquifers, some of which are flowing into and impairing streams in the study area, are now being mapped. Source location is the next step. In addition, Corp Comm is also trying to obtain grant funding to extend this HEM project to the other thousands of square miles of old oilfield areas in the State, in order to determine which if any also have impacted groundwater.

In 1984, OWRB established a monitoring network to determine the ambient quality of major aquifers for the development of numeric groundwater quality standards. Between 1984 and 1992, OWRB collected annual samples from a network of more than 200 domestic, irrigation, stock, and municipal water wells. Samples were analyzed for major ions and metals. Unfortunately, this program was discontinued after nine years of data collection due to lack of funding. However, OWRB continues to conduct sampling of major aquifers as part of their basin studies and Beneficial Use Monitoring Program (BUMP). For example, in 2001 OWRB sampled 61 wells in the Cimarron Alluvium and Terrace aquifer for nutrients and major ions. In 2002, 64 wells in the North Fork of the Red River Alluvium and Terrace aquifer were sampled for major ions.

OWRB has also conducted Statewide monitoring of groundwater *quantity* since 1937 through the mass measurement program, in which water levels in more than 585 wells are measured annually to assess long-term trends in groundwater levels and aquifer storage.

OWRB contracts with Oklahoma Department of Agriculture (with the assistance of an EPA grant) to perform compliance groundwater monitoring at swine Licensed Managed Feeding Operations and the number of observation wells in the annual water level measurement program is approximately 500 beginning 2008.

DEQ has two monitoring programs that address groundwater: the Public Water Supply Compliance Sampling and a 106 Ambient Groundwater Monitoring program. Public water supplies must collect samples at various intervals and locations to determine if the water they serve the public complies with primary drinking water standards as set forth in the Safe Drinking Water Act. Most of these samples are collected at points of entry into the distribution system. The water entering the system at the points of entry can represent one or several groundwater sources. This data is compiled and used to determine areas of contamination and to set expected concentration ranges of various chemical contaminants. Historic data has been compiled going back to the 1920's and future data can be compared to historic ranges to determine changes over time. Intentions are to identify potential concerns before they become major problems.

DEQ's 106 Groundwater Monitoring Program will use public water supply operators to collect samples from 420 randomly selected PWS wells annually. Samples will be analyzed for secondary drinking water parameters and major ions. Data will be used to evaluate and classify groundwater quality and determine aquifer homogeneity. The three years of monitoring data, analyzed, verified, and compiled are available to State agencies, federal agencies, and the citizens of Oklahoma for their use. This information will be available on the Oklahoma Department of Environmental Quality's website at <http://www.deq.state.ok.us/WQDnew/groundwater/index.html>. Maps of water quality are included here for nitrates, sulfates, and total dissolved solids in the major aquifers. Trends established by this ambient monitoring program can be used to identify sources of polluted runoff that potentially could adversely impact vulnerable groundwater resources.

DEQ has several remediation programs that identify, monitor, and when needed, remediate local sources of ground water pollution from releases at regulated facilities, historical releases, and spills. Most of these sources are very localized and are not included as areas with problems or concerns.

Major Aquifers with Anthropogenic Water Quality Problems or Concerns

Major aquifers are defined as aquifers which can effectively yield 150 gallons per minute or greater. The following information is based on samples submitted to DEQ of domestic wells and through the PWS program. This information is based upon the most recent information provided to this division as of December of 2002. For location of the major groundwater aquifers of Oklahoma, please refer to Figure 7.

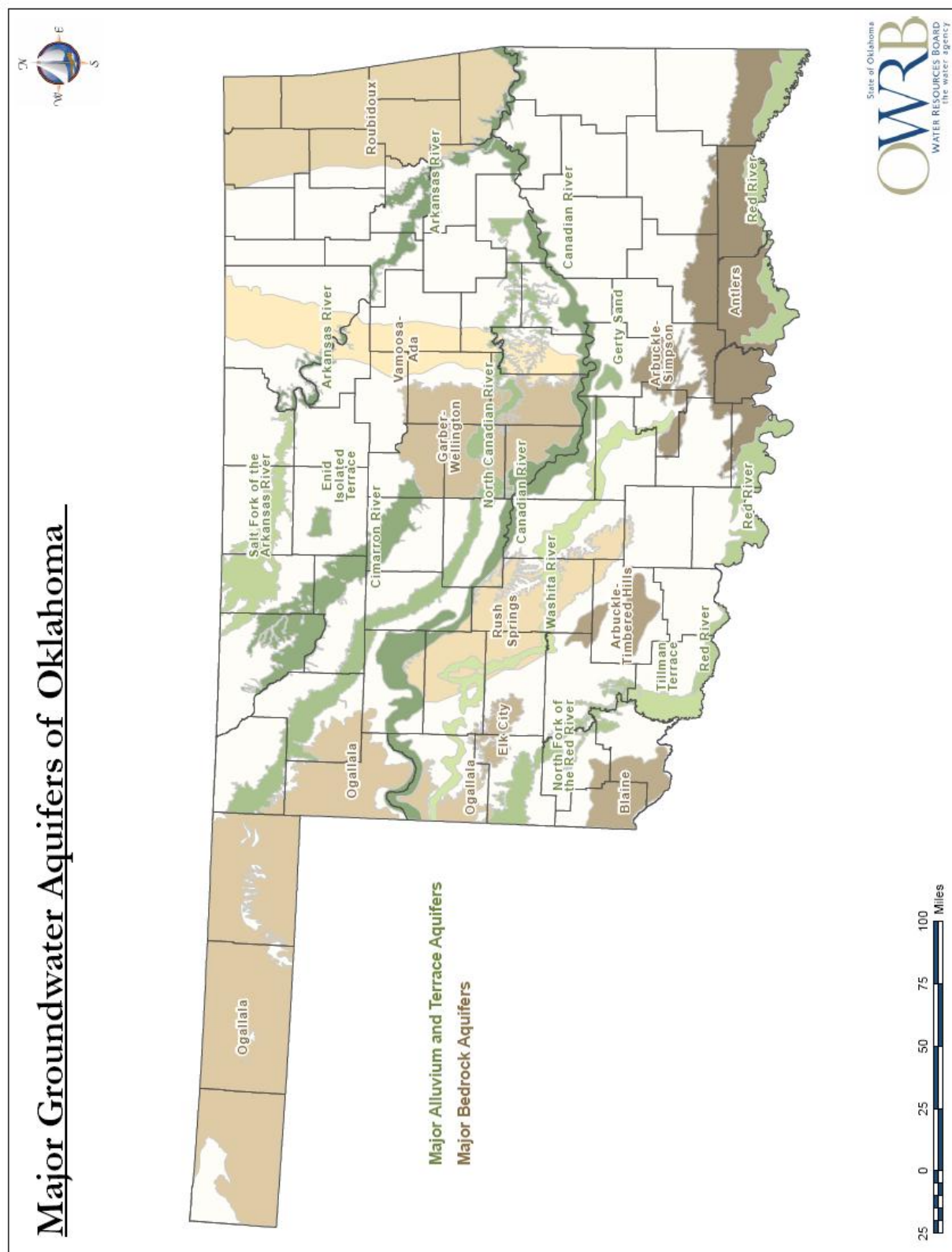
Alluvium and Terrace Deposits of the Salt Fork of the Arkansas River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Arkansas River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

FIGURE 8. GROUNDWATER AQUIFERS OF OKLAHOMA



Alluvium and Terrace Deposits of the Enid Isolated Terrace Deposits

DEQ has identified a well in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Cimarron River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Beaver-North Canadian River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Canadian River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Washita River

DEQ has identified a well field in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the North Fork of the Red River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Red River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Ogallala Formation

DEQ has identified a well field in this aquifer with elevated nitrate levels. Some of the wells showed elevated levels of selenium, probably of natural origin.

Antlers Sandstone

DEQ has identified several monitoring wells in this aquifer with elevated nitrate levels. Some of the wells showed consistently low pH values.

Rush Springs Sandstone

DEQ has identified several wells, monitoring wells and well fields in this aquifer with elevated nitrate levels and a well field with hydrocarbon and chloride contaminations. The contamination is the result of historic oil and gas activities (extraction, refinement, and salt-water disposal).

Garber Sandstone and Wellington Formation

DEQ has identified several wells in this aquifer with gross alpha activity above the maximum allowable limit of 15 pCi/L. The Department has also identified several wells and well fields with selenium contamination. Localized wells and monitoring wells have been identified with industrial solvent contamination. Several wells have been detected with elevated levels of nitrates and chlorides. Arsenic is naturally occurring within this aquifer and several excursions above the new MCL of 10 µg/L have been noted via DEQ source monitoring actions.

Roubidoux Formation

DEQ has identified several newly installed wells in this aquifer that show local elevated iron, sulfate, and total dissolved solid levels in Ottawa County attributed to mine water contamination from historical mining from the Tar Creek Superfund site. The intervening Boone Formation is heavily impacted by the mining and is the source for localized problems within the Roubidoux. DEQ and EPA continue to monitor water quality in this area under the After Action Monitoring Program.

Vamoosa Formation

DEQ has identified several wells in this aquifer with elevated fluoride levels. DEQ, OWRB, and the and the United States Geological Survey (USGS) have identified several wells and well fields with chloride contamination.

The Arbuckle Formation

DEQ has identified several monitoring wells in this aquifer with elevated fluoride levels and a tendency towards excessive hardness. There are no known groundwater based community public drinking water systems experiencing water quality problems. The source appears to be natural and has therefore limited the usefulness of this formation as a drinking water source.

Non-major Aquifers with Anthropogenic Water Quality Problems or Concerns

Non-major aquifers are defined as aquifers which effectively yield less than 150 gallons per minute. The following information is based primarily on individual wells or well fields that were affected by problems. These wells may or may not constitute a public water supply. In most cases, the problem wells are not in use, or have had their water blended with other sources to reduce the contaminant(s) to acceptable level(s). For location of the major aquifers, please refer to the maps "Alluvium and Terrace Deposits in Oklahoma" and "Major Bedrock Aquifers in Oklahoma".

The Boone Formation/Boone Chert/Keokuk and Reeds Springs Formation

DEQ and OWRB have identified several monitoring wells in this aquifer at the Tar Creek Superfund site in Ottawa County with low pH levels and heavy metal contamination. The source of contamination is from historic mining operations. This formation overlays the Roubidoux Formation. The Roubidoux Formation is threatened and locally impacted near several monitoring wells due to the severity of the contamination in the overlaying formations.

The Oscar "A" Formation

DEQ has identified several wells in this aquifer with elevated nitrate levels and gross alpha activity above the maximum allowable limit of 15 pCi/L. These concerns are similar to those expressed for the Garber/Wellington Formation.

McAlester and Hartshorne Formation-Savanna Formation/McAlester Formation/Hartshorne Sandstone Formation

DEQ has identified several monitoring wells in this aquifer with low pH levels, heavy metal contamination, chlorides, and some controlled industrial wastes. The source of contamination is from historic mining operations and off-site disposal pits for oil field and industrial waste.

Walnut Creek Alluvium Deposits

DEQ has identified two well fields in this aquifer with elevated nitrate levels.

Tillman Terrace Deposits

DEQ has identified two well fields in this aquifer with elevated nitrate levels and elevated levels of selenium.

Little Sandy Creek Alluvium Deposits

DEQ has identified a well field in this aquifer with elevated nitrate levels.

West Cache Creek Terrace

DEQ has identified a well field in this aquifer with elevated nitrate levels.

Major Sources of Contamination

The major sources of contamination within the State are listed in Table 19. The basis used for establishing the priority ranking system was based upon information collected from the various monitoring programs (e.g. the monitoring network, the ambient monitoring program and the wellhead protection program and the Tar Creek After-Action Monitoring Program).

TABLE 26. MAJOR SOURCES OF CONTAMINATION

Contaminant Sources	Highest Priority Sources	Factors Considered in Selecting a Contaminant Source ¹	Contaminants ²
Agricultural Activities			
Agricultural Chemical Facilities			
Animal Feedlots	√	A - C - D - E	E - J
Drainage Wells			
Fertilizer Applications	√	C - E	E
Irrigation Practices	√	C - E	E
Pesticide Applications			
Storage and Treatment Activities			
Land Application	√	C - D - E	D - E - H - J - L
Material Stockpiles			
Storage Tanks (Above Ground)			
Storage Tanks (Underground)	√	A - C - E	D
Surface Impoundments	√	A - C - D - E	D - E - G - H - J - L
Waste Piles	√	C - D	H
Waste Tailings	√	C - D	H
Disposal Activities			
Deep Injection Wells	√	C - D - E	C - D - G - H
Landfills			
Septic Systems	√	A - C - D - E	E - J - L
Shallow Injection Wells			
Other			
Hazardous Waste Generators			
Hazardous Waste Sites			
Industrial Facilities			
Material Transfer Operations			
Mining and Mine Drainage	√	A - C - D - E	H
Pipelines and Sewer Lines			
Salt Storage and Road Salting			
Salt Water Intrusion	√	C - D - E	G - D
Spills		D	D - G
Transportation of Materials		D	D
Urban Runoff			
Other Sources	√	A - C - D - E	A - B - D - E - G - J - L - M
Abandon Wells (Unplugged)			

KEY TO TABLE 21

<u>1</u>	<u>2</u>
A. Human health and/or environmental risk (toxicity)	A. Inorganic Pesticides
B. Size of the population at risk	B. Organic Pesticides
C. Location of the sources relative to drinking water sources	C. Halogenated Solvents
D. Number and/or size of contaminant sources	D. Petroleum Compounds
E. Hydrogeologic sensitivity	E. Nitrate
F. State findings, other findings	F. Fluoride
G. Other	G. Salinity/Brine
	H. Metals
	I. Radionuclides
	J. Bacteria
	K. Protozoa
	L. Viruses
	M. Any Unlisted Surface Contaminants

Overview of State Groundwater Protection Programs

Table 20 contains a summary of the State groundwater protection programs.

DEQ received authority under HB 2227 and 1002 and S. B. 361 (clean-up bill for HB 1002) to be the lead agency for Oklahoma's Wellhead Protection Program. Due to the variety of potential causes and sources of groundwater contamination, other State environmental agencies are involved in this program. These include the ODAFF, OWRB, OCC, Corporation Commission, Wildlife Department, and the Department of Mines.

TABLE 27. SUMMARY OF THE STATE GROUNDWATER PROTECTION PROGRAMS

Program or Activities	Check if active	Implementation Status	Responsible Agency
Active SARA Title III Program	√	FE	DEQ
Ambient groundwater monitoring system	√	CE	DEQ
Aquifer vulnerability assessment	√	FE	DEQ*
Aquifer mapping	√	CE	OWRB*
Aquifer characterization	√	CE	OWRB*
Comprehensive data management system	√	CE	DEQ
EPA - endorsed Core Comprehensive State Groundwater Protection Program (CSGWPP)	√	CE	DEQ*
Groundwater discharge permits	√	FE	DEQ*
Groundwater Best Management Practices	√	CE - UR	DEQ*
Groundwater legislation	√	CE	OWRB*
Groundwater classification	√	CE	OWRB*
Groundwater quality standards	√	CE	OWRB*
Interagency coordination for groundwater protection initiatives	√	CE	OSE*
Nonpoint source controls	√	UD	OCC*
Pesticides State Management Plan	√	FE	ODAFF
Pollution Prevention Program	√	FE	DEQ

Program or Activities	Check if active	Implementation Status	Responsible Agency
Resource Conservation and Recovery Act (RCRA) Primacy	√	FE	DEQ
Source Water Assessment and Protection Program (SWAP)	√	FE	DEQ
State Superfund	√	CE	DEQ
State RCRA Program incorporating more stringent requirements than RCRA Primacy	√	CE	DEQ
State septic system regulations	√	FE	DEQ
Underground storage tank installation requirements	√	FE	Corp. Comm
Underground Storage Tank Remediation Fund	√	FE	Corp. Comm
Underground Storage Tank Permit Program	√	FE	Corp. Comm
Oil & Gas well drilling, commercial mud pit, and land application permit programs	√	FE	Corp. Comm.
Special protective rules for pit liners and O&G well casing when close to water wells	√	FE	Corp. Comm.
Oil & Gas injection well UIC Program	√	FE	Corp. Comm.
Oil & Gas State abandoned well plugging fund program	√	FE	Corp. Comm.
Oil & Gas surface and groundwater assessment and remediation oversight programs	√	FE	Corp. Comm.
Oil & Gas orphaned and abandoned well site cleanup program (State authorized industry funded)	√	FE	OERB
Oil & Gas base of fresh/treatable water mapping program	√	CE	Corp. Comm.
Underground Injection Control Program	√	FE	DEQ*
Vulnerability assessment for drinking water / wellhead protection	√	CE	DEQ
Well abandonment regulations	√	FE	OWRB*
Wellhead Protection Program (EPA - approved)	√	CE - FE	DEQ
Well installation regulations	√	FE	OWRB*
LMFO Monitoring Well Sampling Program	√	CE	ODAFF

KEY TO TABLE 19

<u>Implementation Status</u>		<u>Responsible Agency</u>	
CE	Continuing Efforts	DEQ	Oklahoma Dept. of Environmental Quality
FE	Fully Established	OCC	Oklahoma Conservation Commission
NA	Not Applicable	Corp Comm	Oklahoma Corporation Commission
P	Pending	OWRB	Oklahoma Water Resources Board
UD	Under Development	OSE	Office of the Secretary of Environment
UR	Under Revision	OERB	Oklahoma Energy Resources Board
		ODAFF	Oklahoma Dept. of Agriculture Food and Forestry

Oklahoma's Wellhead Protection Program

DEQ developed its Wellhead Protection Program in accordance with the EPA guidelines set forth under the Safe Drinking Water Act ' 1428 (as amended in 1986). Oklahoma's Wellhead Protection Program is a mechanism to assist local communities in protecting their groundwater based drinking supplies. The goal of the Wellhead Protection Program is to delineate protected areas around a drinking water wellhead. In these protected areas, potential causes and sources of groundwater contamination can be identified and managed thus reducing or eliminating the risk of well contamination.

Under Oklahoma's Wellhead Protection Program, managers of groundwater based drinking water systems may contact DEQ to request technical assistance. The State will also offer technical assistance for such tasks as evaluating the potential for groundwater contamination, determining possible sources of contamination, proposing model ordinances for control of potential sources of contamination, and/or preparing a contingency plan in the event of well contamination. The program advocates land use restrictions around the wellhead. At present, emphasis is placed on the development of contingency plans, educational programs and voluntary implementation of best management practices to reduce or eliminate the need for restrictive regulatory protection.

Groundwater Indicators

DEQ routinely monitors public drinking water wells for nitrates, coliform bacteria, volatile organic compounds and other drinking water quality parameters. DEQ has regulatory authority for public water supplies under 63 O.S. 1981, ' 1-901 et seq. The regulations were last amended by the Oklahoma State Board of Health on February 8, 1990 (effective May 25, 1990) and incorporated into DEQ on January 1, 1993 (effective July 1, 1993 and amended July 1, 2003). Table 20 lists the various supply systems with standards violations. With the exception of nitrate as nitrogen, most of the contaminants are of natural origin. Note that in the "Date Violation Confirmed" column, some violations are of recent discovery and others have been known for several years.

TABLE 28. PUBLIC WATER SUPPLY STANDARDS VIOLATIONS

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Nitrate, Maximum Allowable Limit – 10 mg/L (ppm)					
Aline	Alfalfa	Cimarron Terrace	2000	13	6/30/2011
Apache	Caddo	Marlow Formation	2011	29.9	6/14/2011
Apex Fitness	Grady	Unknown	2006	12	11/2/2006
Beckam Co RWD # 1	Beckam	Red River, North Fork Terrace	2009	11	6/3/2010
Bethel Baptist Church	Tillman	Tillman Terrace	2010	14	12/13/2011
Big Belly Bar B Que	Cleveland	Unknown	2004	11	6/6/2006
Blue Ridge MHP	Payne	Unknown	2009	20	10/12/2011
Canadian Co RWD # 1	Canadian	North Canadian River Alluvium	1994	15	12/6/2011
Canute	Washita	Elk City Sandstone	2009	11	1/26/2011
Carmen	Alfalfa	Cimarron Terrace	1995	12	6/1/2011
Cimarron City	Logan	Cimarron Alluvium	2005	11	2/22/2008
Cleo Springs	Major	Cimarron Terrace	1993	11	4/16/2007
Cotton Co RWD # 2	Cotton	Red River Terrace	2011	18	8/2/2011
Country East MHP	Custer	Rush Springs Sandstone	2010	12	8/2/2011
Country Inn Bar	Dewey	Unknown	2010	11	3/15/2010
Cummins Pontiac	Custer	Unknown	2005	17	7/23/2007
Deer Creek	Grant	Arkansas River, Salt Fork Alluvium	1993	11	4/25/2008
Fairview Lakeside Golf Course	Blaine	Unknown	2009	11	6/2/2009
Firehouse BBQ	Cleveland	Unknown	2008	11	4/25/2008

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Garber Municipal Authority	Garfield	Garber-Wellington	2010	13	2/11/2010
Garfield Co RWD # 5	Garfield	Cimarron Terrace - Cedar HL	1994	13	4/16/2008
Garfield Co RWD #1 (KREM-HILL)	Garfield	Enid Terrace	1993	11	6/6/2006
Goltry	Alfalfa	Turkey Creek Alluvium	1993	10.7	7/17/2009
Grandfield	Tillman	Red River Terrace	2009	18	11/4/2011
Hennessey	Kingfisher	Cimarron River Terrace	2008	11	9/8/2010
Highpoint MHP	Garfield	Enid Terrace	2009	11.5	9/23/2009
Hinton	Caddo	Rush Springs Sandstone	2010	11	6/3/2010
Hollis	Harmon	Red River, Salt Fork Terrace	1993	12	12/22/2011
Hydro PWA	Caddo	Rush Springs Sandstone	1995	12	6/6/2006
IBS Pizza and Deli Convenience Store	Logan	Unknown	2005	20	10/2/2007
Jacks General Store	Major	Cedar Hills Sandstone	2010	11	4/22/2010
Laverne	Harper	North Canadian River Terrace	2005	11	9/14/2007
Logan Co RWD #2	Logan	Cimarron River Terrace	1993	13	1/11/2011
Loyal	Kingfisher	North Canadian River Alluvium	1998	12	12/19/2011
Major Co RWD #1	Major	Cimarron Terrace	1996	14	12/6/2011
Margarita Island	Oklahoma	Unknown	2011	21.5	7/1/2011
Merritt Mobile Home Park	Beckham	Unknown	2009	12	6/3/2010
Mooreland	Woodward	North Canadian River Terrace	1993	11	6/7/2011
Mycoland RV & Mobile Home Park	Osage	Arkansas River Alluvium	1993	12.5	2/7/2011
North Blaine Water	Blaine	North Canadian River Alluvium	1993	12	9/12/2011
North Blaine Water	Blaine	Cimarron River Terrace	1993	11	6/3/2009
Okarche	Kingfisher	North Canadian River Alluvium	2001	13	11/28/2011
Okarche RWD	Kingfisher	North Canadian River Alluvium	1988	17	11/28/2011
Payne Co RWD #3	Payne	Stillwater Creek Alluvium	1990	13	11/2/2007
Payne Co RWD #3	Payne	Vamoosa	1990	13	11/2/2007
Quartz Mountain Reg Water Authority	Kiowa	Unknown	2011	11	2/8/2011
Raintree Addition	Osage	Arkansas River Alluvium	2000	12	6/18/2009
Ripley PWA	Payne	Cimarron Terrace	2008	11	10/29/2008
Roger Mills RWD # 2 (RED STAR)	Roger Mills	Washita River Alluvium	2009	13	4/2/2009
Southern Hills Inc	Stephens	Unknown	2007	20.5	9/14/2007
Syms Stop & Shop	Woodward	Unknown	2007	12	4/24/2008
Thirsty Water Corp.	Greer	Red River, North Fork Terrace	2005	11	2/8/2011
Timberline MHP	Osage	Arkansas River Alluvium	1993	16	8/11/2008
Tipton	Tillman	Tillman Terrace	2010	15	2/11/2010
Tuttle	Grady	Unknown	2000	23	6/18/2008
U.S. Gypsum	N. Canadian River Alluvium	Blaine	2011	15	5/12/2011

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
VICI	Dewey	Ogallala	2009	11	3/19/2010
Waynoka	Woods	Cimarron Terrace	2010	13	3/19/2010
Alpha Particles, Maximum Allowable Limits – 15pCi/L					
Bowlegs Lima Water	Seminole	Vamoosa	2009	21	10/29/2009
Colcord PWA	Delaware	Boone Formation	2010	21	2/24/2011
Cookson Hills Christian School	Adair	Roubidoux	2010	16	3/16/2011
Edmond PWA	Oklahoma	Garber-Wellington	2010	17	1/19/2010
Harrah	Oklahoma	Garber-Wellington	2009	62	6/30/2011
Logan Co RWD #1	Logan	Garber-Wellington	2011	19-203	2/24/2011
Meadow Ridge MHP	Pottawatomie	Oscar "A" Formation	2011	40-191	7/29/2011
Nichols Hills	Oklahoma	Garber-Wellington	2010	51	6/7/2010
Norman	Cleveland	Garber-Wellington	2010	16	6/1/2010
Pecan Tree estates	Cleveland	Garber Wellington	2011	28	2/24/2011
Piedmont	Canadian	Garber-Wellington	2009	17	11/5/2009
Tipton	Tillman	Tillman Terrace	2011	17	2/24/2011
Welch PWA	Craig	Roubidoux	2011	29	4/28/2011
Arsenic, Maximum Allowable Limit – 0.010 mg/L (ppm)					
Applewood MHP	Oklahoma	Garber-Wellington	1985	0.03	1/27/2010
Cedar Ridge Estates Development Co	Logan	Unknown	2007	0.024	4/2/2009
Corn PWA	Washita	Rush Springs Sandstone	2007	0.011	3/19/2010
Deer Creek	Grant	Arkansas River, Salt Fork Alluvium	2008	0.011	6/16/2010
Eakly Development Corp	Caddo	Rush Springs Sandstone	2009	0.015	9/30/2011
Edmond PWA – Arcadia	Oklahoma	Garber-Wellington	2007	0.023	11/6/2007
Fairmont	Garfield	Garber-Wellington	2009	0.011	6/16/2010
Grady Co RWD #7 (Ninnekah)	Grady	Rush Springs Sandstone	2009	0.011	9/30/2009
Hinton	Caddo	Rush Springs Sandstone	2009	0.011	5/6/2011
Meridian Water Supply	Logan	Unknown	2010	0.014	10/19/2011
Moore	Cleveland	Garber-Wellington	2008	0.019	2/22/2008
Oklahoma Christian University SA	Oklahoma	Garber-Wellington	2011	0.017	9/29/2011
Weatherford	Custer	Rush Springs Sandstone	2009	0.016	9/19/2011
Beta Particles, Maximum Allowable Limits – 50 pCi/L					
Meadow Ridge MHP	Pottawatomie	Oscar "A" Formation	2009	55-76	7/29/2011
Cadmium, Maximum Allowable Limit – 0.005 mg/L (ppm)					
Falconhead Property Owners Association	Love	Antlers Sand	2006	0.008	1/6/2006
Carbon Tetrachloride, Maximum Allowable Limit – 0.005 mg/L (ppm)					
Garber	Garfield	Garber-Wellington	2009	0.010	12/5/2011
Fluoride, Maximum Allowable Limit – 4.0 mg/L (ppm)					
Indiahoma	Comanche	Arbuckle-Timber	2008	5.1	2/22/2008
Three Springs Farm	Cherokee	Unknown	2005	5.0	10/13/2011

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Radium combined, Maximum Allowable Limit – 5 pCi/L					
Beaver Co RWD #1 Turpin	Beaver	Ogallala	2009	6	10/13/2009
Choctaw Co RWD #1	Choctaw	Antlers Sand	2009	6	2/12/2010
Colcord PWA	Delaware	Boone Formation	2010	6-17	2/12/2010
Cookson Hills Christian School	Adair	Roubidoux	2010	7	2/24/2011
Shattuck	Ellis	Ogallala	2010	6	2/12/2010
Welch PWA	Graig	Roubidoux	2011	7	4/28/2011
Tetrachloroethylene, Maximum Allowable Limit – 0.005 mg/L (ppm)					
Highpoint MHP	Garfield	Enid Terrace	2006	0.013	11/28/2006
Selenium, Maximum Allowable Limit – 0.05 mg/L					
Cedar Ridge Estates Development Co	Logan	Unknown	2009	0.06	2/11/2009
Edmond PWA - Arcadia	Oklahoma	Garber-Wellington	2008	0.29	3/10/2008
McCloud	Pottawatomie	Garber-Wellington	2009	0.06	12/30/2009
Tipton	Tillman	Tillman Terrace	2011	0.053	10/27/2011
Uranium, Maximum Allowable Limit – 0.03 mg/L					
Cedar Ridge Estates Development Co	Logan	Unknown	2008	0.041	2/11/2010
Coyle	Logan	Cimarron River Alluvium	2009	0.034	10/29/2009
Harrah	Oklahoma	Garber-Wellington	2009	0.032	2/24/2011
Hollister	Tillman	Unknown	2009	0.036	11/4/2009
Davis Glenn Estates Water Utility	Logan	Cottonwood Ck A	2010	0.035-0.374	4/12/2010
Deer Creek Rural Water Corp	Oklahoma	Garber-Wellington	2010	0.036	2/16/2010
Edmond PWA – Arcadia	Oklahoma	Garber-Wellington	2010	0.032	6/7/2010
Holiday Outt MHP	Oklahoma	N. Canadian River Alluvium	2011	0.035	2/24/2011
Logan Co RWD #1	Logan	Garber-Wellington	2009	0.036	2/24/2011
Meadow Ridge MHP	Pottawatomie	Oscar “A” Formation	2009	0.228	7/29/2011
Meridian Water Supply	Logan	Unknown	2011	0.060	6/28/2011
Moore	Cleveland	Garber-Wellington	2010	0.043	5/26/2010
Nichols Hills	Oklahoma	Garber-Wellington	2010	0.089	6/7/2010
Norman	Cleveland	Garber-Wellington	2010	0.069	6/1/2010
Pecan Tree Estates Addition	Cleveland	Garber-Wellington	2009	0.039	2/24/2011
Piedmont	Canadian	Garber-Wellington	2009	0.233	11/5/2009
Tipton	Tillman	Tillman Terrace	2010	0.050-0.082	2/24/2011

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Appendix A

Oklahoma Waterbody Identification (WBID) System

Waterbody identification (WBID) numbers are established based on a waterbody's location in the State's Water Quality Management Plan. WBIDs are unique identifiers that offer a convenient, unambiguous method of referencing waterbodies within the State of Oklahoma. A complete WBID consists of a two-letter, fourteen-digit identifier.

Example: **OK311500030010_00** - Elk Creek in southwest Oklahoma

The first two characters define the state code as required by EPA.

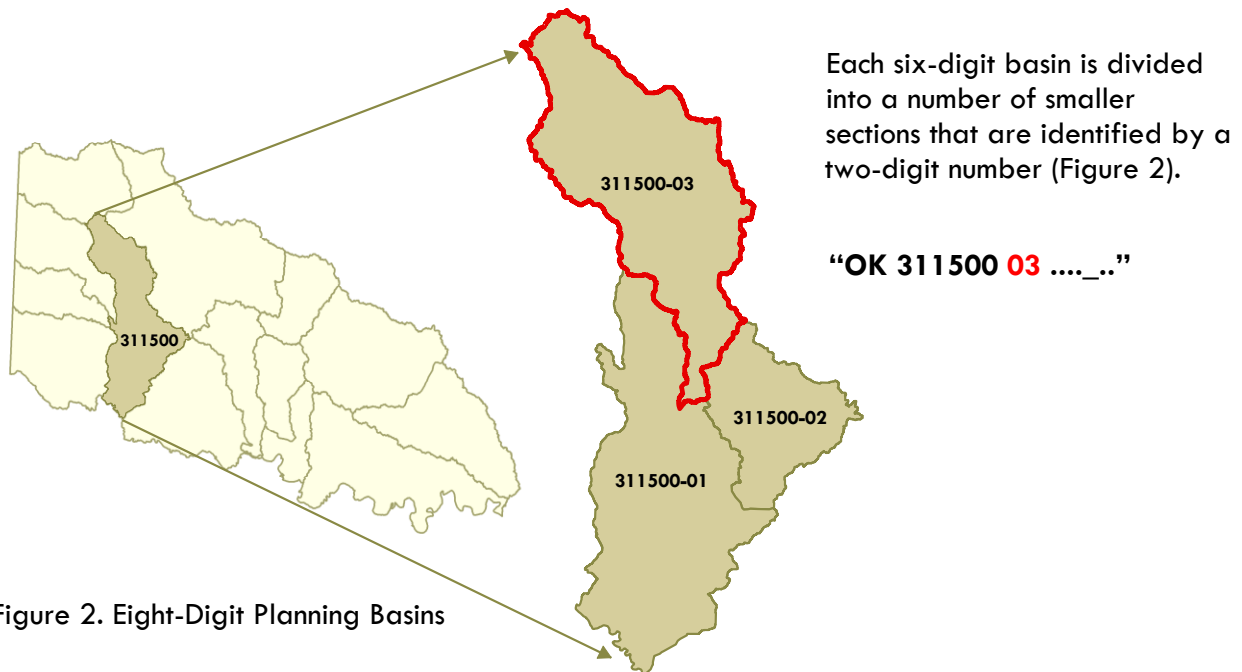
"OK**_.."**

The next six digits are derived from Oklahoma's Water Quality Management Planning Basins. The State's seven large, one-digit planning basins are broken down into smaller basins, each identified with a six-digit number.

"OK 311500**_.."**

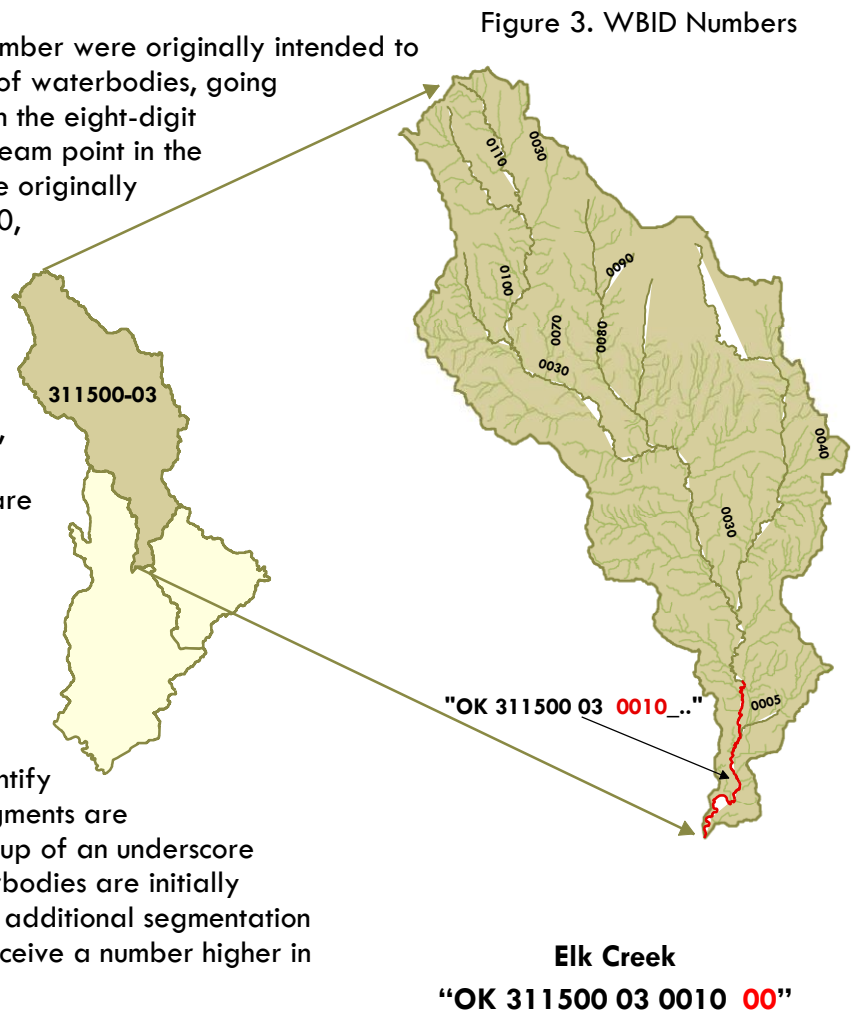


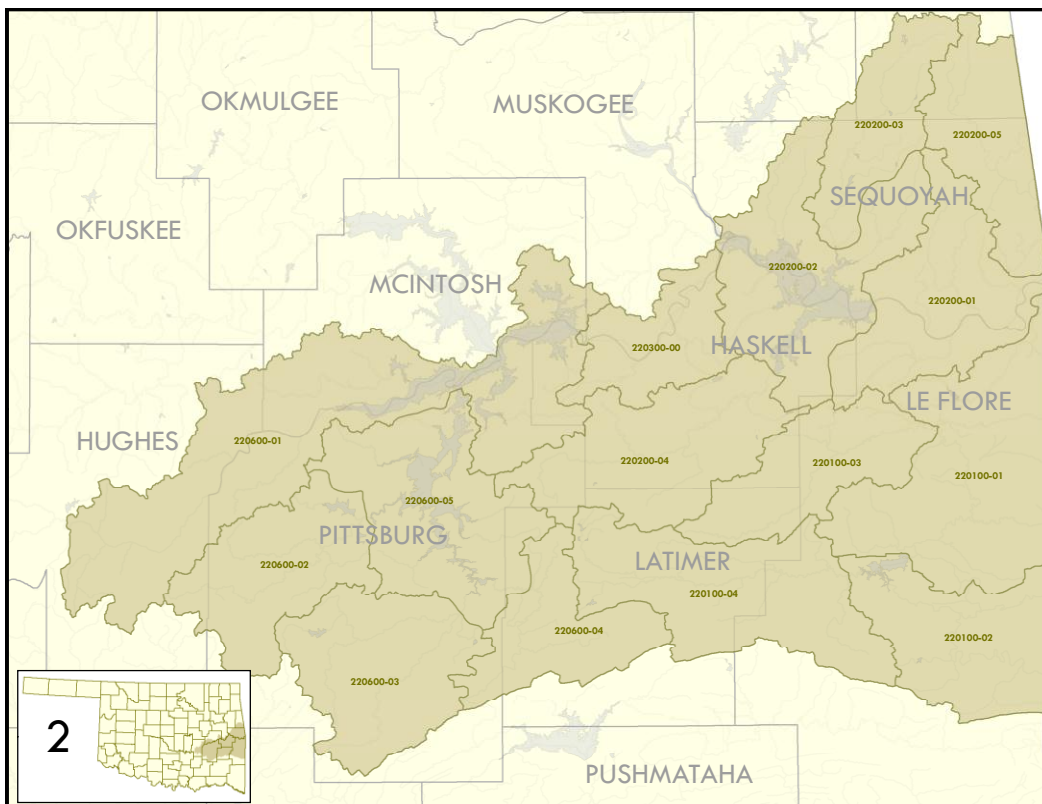
Figure 1. Six-Digit Planning Basins



The next four digits of a WBID number were originally intended to 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. These four digits were originally selected by tens (e.g., 0010, 0020, 0030). This provided for the addition of waterbodies while maintaining the hydrologic sequence as much as possible. Not all waterbodies have been assigned an identification number, primarily due to limited resources and need. As more waterbodies are assessed, the WBID system is designed to incorporate a unique identifier for these waterbodies (Figure 3).

The last two digits of a WBID number allow a waterbody to be segmented further in order to identify specific portions. Waterbody segments are identified by a segment ID made up of an underscore and two additional digits. Waterbodies are initially assigned a segment ID of _00. If additional segmentation is required, upstream segments receive a number higher in value (e.g., _10, _20, _30).

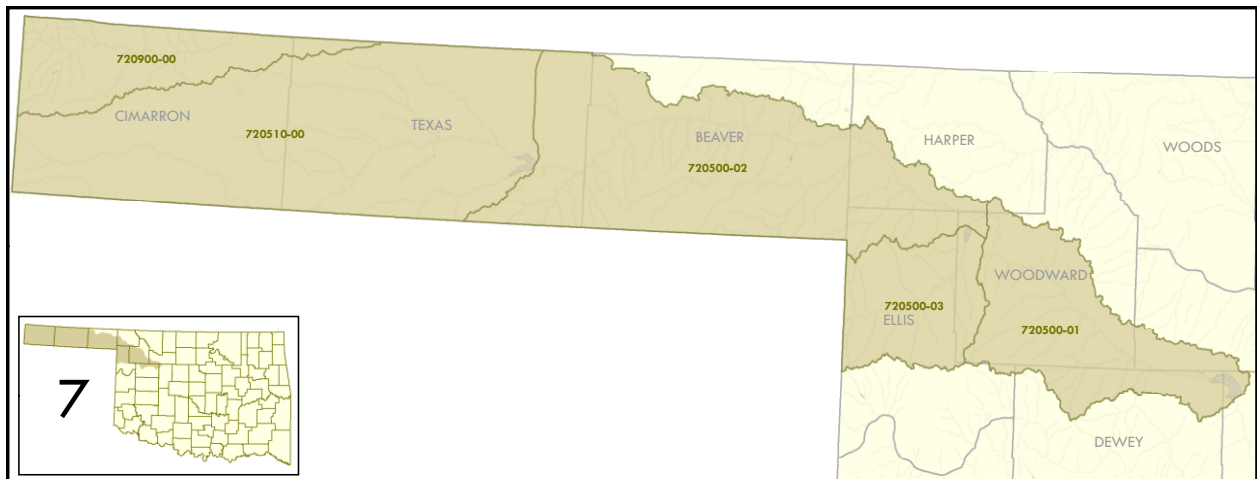




Oklahoma 8-digit Planning Basins 1 and 2



Oklahoma 8-digit Planning Basins 3 and 4



Oklahoma 8-digit Planning Basins 5, 6, and 7

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Appendix B - 2012 Comprehensive Waterbody Assessment

Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010010_00	Arkansas River	8.59	R	2	2017	I	X				X	X	F	X			F			
OK120400010030_00	Dog Branch Creek	4.65	R	3	2017	X	X				X	X		X						
OK120400010035_00	Arkansas River, Unnamed Tributary of	1.62	R	3	2017	X	X				X	X		X						
OK120400010040_00	Taylor Creek	4.01	R	3	2017	X	X				X	X		X						
OK120400010050_00	Cedar Creek	4.44	R	3	2017	X	X				X	X		X						
OK120400010070_00	Webbers Falls Lake	11,600	L	5a	2012	F	F				N	X	F	N			F			
OK120400010080_00	Big Branch	1.41	R	3	2017	X	X				X	X		X						
OK120400010090_00	Sulphur Branch	4.17	R	3	2017	X	X				X	X		X						
OK120400010110_00	Little Greenleaf Creek	6.96	R	3	2017	X	X				X	X		X						
OK120400010120_00	Greenleaf Creek	15.31	R	2	2014	I	F				I	X		I		X				✓
OK120400010130_00	Greenleaf Lake	920	L	5a	2014	F	F				N	X		F		F				✓
OK120400010140_00	Deep Branch	3.92	R	3	2017	X	X				X	X		X		X				✓
OK120400010150_00	Spaniard Creek	1.31	R	3	2017	X	X				X	X		X		X				✓
OK120400010160_00	Spaniard Creek, East	6.21	R	3	2017	X	X				X	X		X		X				✓
OK120400010170_00	Spaniard Creek, West	5.97	R	3	2017	X	X				X	X		X		X				✓
OK120400010180_00	White Oak Creek	3.88	R	3	2017	X	X				X	X		X		X				✓
OK120400010190_00	Gibson Hollow Creek	2.72	R	3	2017	X	X				X	X		X		X				✓
OK120400010200_00	Bob Warren Creek	5.00	R	3	2017	X	X				X	X		X		X				✓
OK120400010210_00	Spaniard Creek	5.76	R	3	2017	X	X				X	X		X						
OK120400010220_00	Coal Creek	3.93	R	3	2017	X	X				X	X		X						
OK120400010230_00	Star Oxbow Lake	1	L	3	2016	X	X				X	X		X						

F = Fully Supporting I = Insufficient Information **N = Not Supporting** X = Not Assessed

Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010240_00	Sand Creek	5.12	R	3	2017	X	X		X			X			X					
OK120400010250_00	Salt Creek	3.84	R	3	2017	X	X				X	X		X						
OK120400010260_00	Arkansas River	11.17	R	5a	2012	I	N				F	F	F	F			F			
OK120400010270_00	Bondinot Creek	7.50	R	3	2017	X	X				X	X		X						
OK120400010280_00	Bayou Manard	14.02	R	3	2017	X	X				X	X		X		X				
OK120400010290_00	Shimoon Creek	2.27	R	3	2017	X	X				X	X		X						
OK120400010300_00	Fort Gibson Creek	3.85	R	3	2017	X	X				X	X		X						
OK120400010310_00	Walker Branch	4.99	R	3	2017	X	X				X	X		X						
OK120400010320_00	Fourmile Branch	4.27	R	3	2017	X	X				X	X		X						
OK120400010330_00	Brooks Branch (Limestone Hollow Creek)	4.26	R	3	2017	X	X				X	X		X						
OK120400010340_00	Hicks Branch	4.87	R	3	2017	X	X				X	X		X						
OK120400010350_00	Fire Branch	2.74	R	3	2017	X	X				X	X		X						
OK120400010360_00	Mill Creek	5.65	R	3	2017	X	X				X	X		X						
OK120400010370_00	Bobtail Creek	6.85	R	3	2017	X	X				X	X		X						
OK120400010380_00	Gulager Spring Branch	4.60	R	3	2017	X	X				X	X		X						
OK120400010390_00	Eureka Springs Branch	3.75	R	3	2017	X	X				X	X		X		X				
OK120400010400_00	Coody Creek	16.16	R	5a	2012	F	F				N	X		N		I				
OK120400010410_00	Sam Creek	9.24	R	3	2017	X	X				X	X		X						
OK120400010420_00	Corta Creek	5.54	R	3	2017	X	X				X	X		X						
OK120400010430_00	Bacone Creek	2.07	R	3	2017	X	X				X	X		X						
OK120400010440_00	Ross Lake	1	L	3	2016	X	X				X	X		X						
OK120400010450_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010460_00	Hyde Park Creek!	1.30	R	3	2017	X	X				X	X		X						
OK120400020010_00	Dirty Creek	44.18	R	5a	2014	I	F				N	X		N		F				
OK120400020015_00	Dirty Creek, Unnamed Tributary of	3.39	R	3	2017	X	X		X			X			X					
OK120400020020_00	Sulphur Creek	4.45	R	3	2017	X	X				X	X		X						
OK120400020030_00	Dirty Creek, South Fork	15.55	R	5a	2012	F	N				N	X		N						
OK120400020040_00	Starvilla Creek	4.68	R	3	2017	X	X				X	X		X						
OK120400020050_00	Pourum Creek	2.11	R	3	2017	X	X				X	X		X						
OK120400020060_00	Pourum Creek, East	4.21	R	3	2017	X	X		X			X			X					
OK120400020070_00	Pourum Creek, West	3.33	R	3	2017	X	X				X	X		X						
OK120400020080_00	Gap Prairie Creek	3.81	R	3	2017	X	X				X	X		X						
OK120400020090_00	Tiener Branch	3.52	R	3	2017	X	X				X	X		X						
OK120400020100_00	Salt Springs Creek	3.35	R	3	2017	X	X				X	X		X						
OK120400020110_00	Dirty Creek, Georges Fork	10.05	R	5a	2012	F	F				N	X		N		I	F			
OK120400020120_00	Howland Creek	5.21	R	3	2017	X	X		X						X		X			
OK120400020130_00	Warner Creek	5.92	R	3	2017	X	X				X	X		X						
OK120400020140_00	Warner Lake	13	L	3	2016	X	X				X	X		X		X				
OK120400020150_00	Nebo Creek	6.78	R	3	2017	X	X				X	X		X						
OK120400020160_00	Butler Creek	10.34	R	5a	2012	I	F				N	X		N						
OK120400020170_00	Timberley Creek	4.90	R	3	2017	X	X				X	X		X						
OK120400020180_00	Anderson Creek	10.64	R	3	2017	X	X				X	X		X						
OK120400020190_00	Elk Creek	13.96	R	5a	2012	F	N				N	X		F						
OK120400020200_00	Wayside Creek	12.53	R	3	2017	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400020210_00	Honey Springs Branch	2.17	R	3	2017	X	X				X	X		X						
OK120400020220_00	Council Hill Creek	9.93	R	3	2017	X	X				X	X		X						
OK120400020230_00	Checotah Creek	7.09	R	3	2017	X	X				X	X		X						
OK120400020240_00	Shady Grove Creek	10.80	R	5a	2012	I	N				N	X		N						
OK120400020250_00	Unnamed Trib of Dirty Creek	5.21	R	3	2017	X	X				X	X		X						
OK120400020260_00	Elk Creek, Unnamed Trib of	1.43	R	3	2017	X	X				X	X		X						
OK120410010010_00	Arkansas River	1.80	R	2	2017	X	X				X	X	F		X		F			
OK120410010020_00	Muskogee Creek, North	8.51	R	3	2017	X	X				X	X		X						
OK120410010030_00	Pecan Creek	17.01	R	3	2017	X	X				X	X		X		X				
OK120410010040_00	Taft Creek	3.42	R	3	2017	X	X				X	X		X						
OK120410010050_00	Taft Institute Lake	1	L	3	2016	X	X				X	X		X						
OK120410010060_00	Blue Creek	7.43	R	3	2017	X	X				X	X		X						
OK120410010070_00	Porter Creek	4.89	R	3	2017	X	X				X	X		X						
OK120410010080_00	Arkansas River	41.89	R	4a	2012	F	F				F	F	F		N		F			
OK120410010080_10	Arkansas River	4.83	R	2	2017	X	X				I	X	F		I		F			
OK120410010090_00	Yellow Water Ditch	8.08	R	3	2017	X	X				X	X		X						
OK120410010100_00	Cloud Creek	4.77	R	5a	2012	I	N				F	X		N		I				
OK120410010110_00	Ash Creek	17.71	R	3	2017	I	I				I	X		X		I				
OK120410010120_00	Salt Creek	12.27	R	3	2017	X	X				X	X		X						
OK120410010130_00	Coal Creek	8.18	R	3	2017	X	X				X	X		X						
OK120410010140_00	Haskell Lake	14	L	3	2016	X	X				X	X		X						
OK120410010150_00	Concharty Creek	20.36	R	3	2017	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120410010160_00	Coweta Creek	8.17	R	3	2017	X	X				X	X		X						
OK120410010170_00	Cedar Creek	8.50	R	3	2017	X	X				X	X		X						
OK120410010180_00	Mountain Creek	7.19	R	3	2017	X	X				X	X		X		X				
OK120410010190_00	Bixhoma Lake	110	L	5a	2014	F	F				N	X		F		X				
OK120410010200_00	Broken Arrow Creek	9.85	R	3	2017	I	I				I	X		X						
OK120410010210_00	Haikey Creek	10.90	R	5a	2017	I	I				N	X		N						
OK120410010220_00	Snake Creek	31.43	R	4a	2015	F	F				I	X		N		I				
OK120410010230_00	Haikey Creek, Unnamed Trib of	8.50	R	3	2017	X	X				X	X		X						
OK120410010240_00	Haikey Creek, Unnamed Trib of	5.33	R	3	2017	X	X				X	X		X						
OK120410010250_00	Ash Creek, Unnamed Trib of	1.61	R	3	2017	X	X				X	X		X						
OK120410010260_00	Coal Creek, Unnamed Trib of	6.10	R	3	2017	X	X				X	X		X						
OK120410020010_00	Cloud Creek	11.69	R	2	2012	F	F				I	X		X						
OK120410020020_00	Cane Creek	21.96	R	3	2017	I	X				I	X		X						
OK120410020030_00	Walnut Creek	6.22	R	3	2017	X	X				X	X		X						
OK120410020040_00	Little Cane Creek	10.94	R	3	2017	X	X				X	X		X						
OK120410020050_00	Coal Creek	8.65	R	3	2017	X	X				X	X		X						
OK120410020060_00	Boynton Creek	1.53	R	3	2017	X	X				X	X		X						
OK120410020070_00	Boynton Lake	100	L	3	2014	X	X				X	X		X						
OK120410030020_00	Rock Creek	6.12	R	3	2017	X	X				X	X		X		X				
OK120410030030_00	Duck Creek	12.60	R	2	2017	X	X				F	X		X						
OK120410030040_00	Eagle Creek	11.64	R	3	2017	X	X				X	X		X						
OK120410030050_00	Duck Creek, North	7.56	R	3	2017	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120410030060_00	Duck Creek, Middle	8.80	R	3	2017	X	X				X	X		X						
OK120410030065_00	Middle Duck Creek, Unnamed Trib of	3.20	R	3	2012	X	I				X	X		X						
OK120410030070_00	Duck Creek, South	9.26	R	3	2017	X	X				X	X		X						
OK120410030080_00	Boren Lake	16	L	3	2016	X	X				X	X		X		X				
OK120410030090_00	Bruner Creek	4.29	R	3	2017	X	X				X	X		X						
OK120410030100_00	Rock Creek	6.04	R	3	2017	X	X				X	X		X						
OK120420010010_00	Arkansas River	16.74	R	5a	2012	F	F				N	F	F		N		F			
OK120420010010_10	Arkansas River	7.32	R	5a	2017	X	X				N	I	F		I		F			
OK120420010020_00	Twin Hills Creek	10.10	R	3	2017	X	X				X	X		X						
OK120420010025_00	Twin Hills Creek, Unnamed Trib of	1.30	R	3	2016	X	X				X	X		X						
OK120420010030_00	Posey Creek	7.42	R	2	2017	I	I				F	X		X						
OK120420010050_00	Joe Creek	8.38	R	3	2017	I	I				I	X		I						
OK120420010060_00	Fred Creek	2.87	R	5a	2012	I	I				N	X		N						
OK120420010070_00	Mooser Creek	3.79	R	5a	2012	I	I				I	X		N						
OK120420010080_00	Cherry Creek	4.38	R	3	2017	X	X				X	X		X						
OK120420010090_00	Crow Creek	2.99	R	5a	2017	I	I				N	X		N						
OK120420010110_00	Swan Lake	15	L	3	2016	X	X				X	X		X						
OK120420010120_00	Berryhill Creek	4.28	R	3	2017	X	X				X	X		X						
OK120420010130_00	Arkansas River	12.65	R	5a	2012	F	F				N	F	F	F	X		F			
OK120420010140_00	Bigheart Creek	4.48	R	5a	2012	I	X				N	X		N						
OK120420010150_00	Sand Springs Creek, East	2.66	R	3	2017	X	X				X	X		X						
OK120420010160_00	Sand Springs Lake	14	L	3	2016	X	X				X	X		X						

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OK120420010170_00	Harlow Creek	5.69	R	5a	2012	I	X				N	X		N						
OK120420010180_00	Prattville Creek	5.63	R	3	2017	X	X				X	X		X						
OK120420010190_00	Sand Springs Creek, West	3.85	R	3	2017	X	X				X	X		X						
OK120420010200_00	Fisher Creek	7.99	R	3	2017	X	X				X	X		X						
OK120420010210_00	Anderson Creek	8.35	R	3	2017	X	X				X	X		X						
OK120420010220_00	Euchee Creek	5.56	R	3	2017	X	X				X	X		X						
OK120420010230_00	Shell Creek	3.62	R	3	2017	X	X				X	X		X		X				
OK120420010240_00	Shell Creek	4.82	R	3	2017	X	X				X	X		X		X				✓
OK120420010250_00	Shell Lake	573	L	5a	2012	F	F				N	X		F		I				✓
OK120420010260_00	Phillips Creek	2.51	R	3	2017	X	X				X	X		X		X				✓
OK120420010270_00	Phillips Lake	1	L	3	2016	X	X				X	X		X		X				✓
OK120420010280_00	Mud Creek	5.09	R	3	2017	X	X				X	X		X						
OK120420010290_00	Sand Creek	4.07	R	3	2017	X	X				X	X		X						
OK120420010300_00	Little Sand Creek	2.83	R	3	2017	X	X				X	X		X						
OK120420010310_00	Brush Creek	2.20	R	3	2017	X	X				X	X		X						
OK120420010320_00	Reed Park Creek!	2.52	R	3	2017	X	X				X	X		X						
OK120420010330_00	Little Joe Creek	3.13	R	3	2017	X	X				X	X		X						
OK120420010340_00	Little Joe Creek, Unnamed Trib of	2.19	R	5a	2017	X	X				N	X		X						
OK120420020010_00	Polecat Creek	7.16	R	5a	2012	N	F				N	X		F						
OK120420020020_00	Hager Creek	4.04	R	3	2017	X	X				X	X		X						
OK120420020030_00	Coal Creek	2.58	R	3	2017	X	X				X	X		X		X				
OK120420020030_10	Coal Creek	5.51	R	2	2017	I	F		I			X		X		I				

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OK120420020040_00	Nickel Creek	12.29	R	5a	2012	I	X				I	X		N						
OK120420020050_00	Polecat Creek	7.68	R	4a	2017	I	F				F	X		N						
OK120420020050_10	Polecat Creek	29.83	R	2	2017	I	F				I	X		X						
OK120420020060_00	Rock Creek	4.05	R	5a	2017	X	X				N	X		X						
OK120420020065_00	Rock Creek, Davis Park Trib!	0.59	R	3	2017	X	X				X	X		X						
OK120420020070_00	Biven Creek	5.74	R	3	2012	X	X				I	X		X						
OK120420020080_00	Euchee Creek	1.41	R	3	2017	X	X				X	X		X						
OK120420020090_00	Middle Lake	1	L	3	2016	X	X				X	X		X		X				
OK120420020100_00	Euchee Creek	7.68	R	3	2017	X	X				X	X		X						
OK120420020110_00	Sapulpa Lake	67	L	3	2016	X	X				X	X		X		X				
OK120420020120_00	Rock Creek	15.03	R	3	2017	I	X				I	X		X		X				✓
OK120420020130_00	Sahoma Lake	312	L	5a	2014	N	F				N	X		F		F				✓
OK120420020140_00	Pretty Water Creek	1.84	R	3	2017	X	X				X	X		X		X				✓
OK120420020150_00	Pretty Water Lake	16	L	3	2016	X	X				X	X		X		X				✓
OK120420020160_00	Childres Creek	6.99	R	5c	2012	I	N		X			X			X					
OK120420020170_00	Skull Creek	3.74	R	3	2017	X	X				X	X		X						
OK120420020180_00	Euchee Creek	6.45	R	3	2017	X	X				X	X		X						
OK120420020190_00	Kenyon Creek	4.31	R	3	2017	X	X				X	X		X						
OK120420020200_00	Jackson Creek	1.38	R	3	2017	X	X				X	X		X		X				
OK120420020210_00	Jackson Lake	55	L	3	2016	X	X				X	X		X						
OK120420020220_00	Jay Bird Hollow Creek	2.38	R	3	2017	X	X				X	X		X						
OK120420020230_00	Mountain Creek	5.42	R	3	2017	X	X				X	X		X						

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OK120420020240_00	Clear Creek	6.38	R	2	2017	I	F				I	X		X						
OK120420020250_00	Warner Creek	1.97	R	2	2017	I	F				I	X		X						
OK120420020260_00	Little Polecat Creek	8.24	R	3	2017	X	X				X	X			X					
OK120420020270_00	Neversweat Creek	4.39	R	3	2017	X	X				X	X		X						
OK120420020280_00	Kettle Creek	3.80	R	3	2017	X	X				X	X		X						
OK120420020290_00	Polecat Creek	20.52	R	3	2017	I	I				I	X		X		X				✓
OK120420020300_00	Heyburn Lake	880	L	5a	2012	N	F				N	N		F		F				✓
OK120420020310_00	Browns Creek	7.40	R	2	2012	I	F				I	X		X		I				✓
OK120420020320_00	Tiger Creek	5.64	R	3	2017	X	X				X	X		X		X				✓
OK120420020330_00	Turkey Creek	5.86	R	3	2017	X	X				X	X		X		X				✓
OK120420020340_00	Rowland Creek	2.79	R	3	2017	X	X				X	X		X		X				✓
OK120420020350_00	Mosquito Creek	5.92	R	3	2017	X	X				X	X		X		X				✓
OK120420020360_00	Winkey Branch, East	1.94	R	3	2017	X	X				X	X		X		X				✓
OK120420020370_00	Winkey Branch	3.61	R	3	2017	X	X				X	X		X		X				✓
OK120420020380_00	Dog Creek	5.75	R	3	2017	X	X				X	X		X		X				✓
OK120420020390_00	Figure Eight Creek	6.16	R	3	2017	X	X				X	X		X		X				✓
OK120420020400_00	Deep Creek	4.66	R	3	2017	X	X				X	X		X		X				✓
OK120420020410_00	Scholar Creek	5.55	R	3	2017	X	X				X	X		X		X				✓
OK121300010010_00	Bird Creek	23.81	R	5a	2012	F	F				N	F		N		N				
OK121300010020_00	Elm Creek	4.69	R	3	2015	X	X				X	X		X						
OK121300010030_00	Mingo Creek	12.69	R	2	2015	X	X				F	X		X			F			
OK121300010035_00	Mingo Creek, Unnamed Tributary of	3.13	R	3	2018	X	X		X						X		X			

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OK121300010040_00	Knudson Creek	2.34	R	3	2015	X	X				X	X		X						
OK121300010050_00	Mill Creek	3.68	R	5c	2015	I	I				N	X		X						
OK121300010055_00	Owasso Creek	2.85	R	3	2015	X	X		X			X			X					
OK121300010057_00	Owasso Creek, Unnamed Tributary of	1.10	R	3	2015	X	X		X			X			X					
OK121300010060_00	Ranch Creek	6.94	R	4a	2015	I					F	X		N						
OK121300010080_00	Owasso Lake	18	L	3	2016	X	X				X	X		X						
OK121300010090_00	Coal Creek	6.71	R	5a	2015	I	I				N	X		N						
OK121300010100_00	Recreation Creek	2.38	R	3	2015	X	X				X	X		X						
OK121300010110_00	Recreation Lake	32	L	3	2016	X	X				X	X		X						
OK121300010120_00	Flat Rock Creek	9.91	R	5c	2015	I	I				N	X			X					
OK121300010130_00	Yahola Lake	431	L	3	2016	X	X				X	X		X		X				✓
OK121300010140_00	Dirty Butter Creek	4.21	R	3	2015	X	X		X			X			X					
OK121300010150_00	Delaware Creek	26.26	R	5a	2015	F	N				N	X		N		I				
OK121300010160_00	Goose Creek	3.08	R	3	2015	X	X				X	X		X						
OK121300010170_00	Turkey Creek	6.24	R	3	2015	X	X				X	X		X						
OK121300010180_00	Dirty Butter Creek, Unknown Trib of	1.61	R	3	2015	X	X				X	X		X						
OK121300010220_00	Elm Creek, Unnamed Trib of	2.43	R	3	2015	X	X				X	X		X						
OK121300020010_00	Bird Creek	4.24	R	5a	2015	F	F				I	F		N		F				
OK121300020010_10	Bird Creek	35.63	R	4a	2014	F	F				F	X		N		I				
OK121300020030_00	Charley Creek	5.56	R	3	2015	X	X				X	X		X						
OK121300020040_00	Panther Creek	3.01	R	3	2015	X	X				X	X		X						
OK121300020050_00	Skunk Creek	4.33	R	3	2015	X	X				X	X		X						

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OK121300020060_00	Skallall Creek	8.28	R	3	2015	X	X				X	X		X						
OK121300020070_00	Tyner Creek	10.35	R	3	2015	X	X				X	X		X						
OK121300020080_00	Candy Creek	16.95	R	2	2015	F	F				I	X		I		I				
OK121300020090_00	Pecan Hollow Creek	0.38	R	3	2015	X	X				X	X		X		X				✓
OK121300020100_00	Avant Public Utility Lake	6	L	3	2016	X	X				X	X		X		X				
OK121300020110_00	Avant Municipal Lake	1	L	3	2016	X	X				X	X		X						
OK121300020120_00	Little Candy Creek	6.61	R	3	2015	X	X				X	X		X						
OK121300020130_00	Tucker Creek	5.29	R	3	2015	X	X				X	X		X						
OK121300020140_00	Avant Creek	2.67	R	3	2015	X	X				X	X		X						
OK121300020150_00	Bull Creek	8.01	R	3	2015	X	X				X	X		X						
OK121300020160_00	Clem Creek	4.09	R	3	2015	X	X				X	X		X						
OK121300020170_00	Dog Thresher Creek	8.25	R	3	2015	X	X				X	X		X						
OK121300020180_00	Dog Thresher Creek, Unnamed Trib of	0.98	R	3	2020	X	X				X	X		X						
OK121300020190_00	Waxhoma Lake	197	L	5c	2012	N	F				I	X		F		F				
OK121300030010_00	Bird Creek	25.11	R	2	2015	F	F				I	X		I		I				
OK121300030020_00	Birch Creek	0.93	R	3	2015	X	X				X	X		X		X				
OK121300030030_00	Birch Creek	11.44	R	3	2015	X	X				X	X		X		X				✓
OK121300030040_00	Birch Lake	1,137	L	5a	2014	N	F				N	X		F		F				✓
OK121300030050_00	Fourmile Creek	5.80	R	3	2015	X	X				X	X		X		X				✓
OK121300030055_00	Birch Creek, Unnamed Tributary of	3.15	R	3	2015	X	X		X			X			X					✓
OK121300030060_00	Choteau Creek	7.68	R	3	2015	X	X				X	X		X						
OK121300030070_00	Bird Creek, Unnamed Tributary of	2.68	R	3	2015	X	X		X			X			X					

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OK121300030080_00	Pennel Creek	2.89	R	3	2015	X	X				X	X		X						
OK121300030090_00	Red Eagle Branch	3.12	R	3	2015	X	X				X	X		X						
OK121300030100_00	Cedar Creek	4.80	R	3	2015	X	X				X	X		X						
OK121300030110_00	Cochahee Creek	3.94	R	3	2015	X	X				X	X		X						
OK121300030120_00	Nelagone Creek	5.17	R	3	2015	X	X				X	X		X						
OK121300030130_00	Buffalo Creek	5.32	R	3	2015	X	X				X	X		X						
OK121300030140_00	Saucy Calf Creek	4.05	R	3	2015	X	X				X	X		X						
OK121300030150_00	McCormick Creek	2.86	R	3	2015	X	X				X	X		X						
OK121300030160_00	Quapaw Creek	4.43	R	3	2015	X	X				X	X		X						
OK121300030170_00	Rush Creek	2.43	R	3	2015	X	X				X	X		X						
OK121300030180_00	Soldier Creek	4.02	R	3	2015	X	X				X	X		X						
OK121300030190_00	Mud Creek	2.53	R	3	2015	X	X				X	X		X						
OK121300030200_00	Clear Creek	20.09	R	2	2014	F	F				I	X		I		X				
OK121300030210_00	Cedar Canyon Creek	3.37	R	3	2015	X	X				X	X		X						
OK121300030220_00	Pawhuska Creek	1.97	R	3	2015	X	X				X	X		X						
OK121300030230_00	Pawhuska Lake	96	L	5a	2016	F	N				I	X		F		F				
OK121300030240_00	Higgins Creek	3.07	R	3	2015	X	X				X	X		X						
OK121300030250_00	Maher Creek	2.84	R	3	2015	X	X				X	X		X						
OK121300030260_00	Baconrind Creek	5.81	R	3	2015	X	X				X	X		X						
OK121300030270_00	Mud Creek	5.02	R	3	2015	X	X				X	X		X						
OK121300030280_00	Bird Creek, Middle	2.19	R	3	2015	X	X				X	X		X		X				✓
OK121300030290_00	Bird Creek, Middle	10.44	R	3	2015	X	X				I	X		X		X				✓

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OK121300030300_00	Bluestem Lake	762	L	5a	2016	N	F				N	X		F		F				✓
OK121300030310_00	Bird Creek, South	5.39	R	3	2015	X	X				X	X		X		X				✓
OK121300030320_00	Bird Creek, North	19.55	R	2	2015	F	F				I	X		I						
OK121300030330_00	Hickory Creek	4.11	R	3	2015	X	X				X	X		X						
OK121300040010_00	Hominy Creek	12.75	R	4a	2014	F	F				F	X		N		I				
OK121300040020_00	Rock Creek	10.40	R	3	2015	X	X				X	X		X						
OK121300040030_00	Quapaw Creek	8.84	R	2	2015	X	X				F	X		X						
OK121300040040_00	Battle Creek	6.31	R	3	2015	X	X				X	X		X						
OK121300040050_00	Quapaw Creek, East Prong	4.80	R	3	2015	X	X				X	X		X						
OK121300040060_00	Quapaw Creek, West Prong	3.57	R	3	2015	X	X				X	X		X						
OK121300040070_00	Hominy Creek	1.81	R	3	2015	X	X				X	X		X		X				
OK121300040070_10	Hominy Creek	4.93	R	3	2015	X	X				X	X		X		X				✓
OK121300040080_00	Skiatook Lake	10,190	L	2	2014	F	F				I	X		F		F				✓
OK121300040090_00	Tall Chief Creek	2.16	R	3	2015	X	X				X	X		X						
OK121300040140_00	Tall Chief Creek Lake	8	L	3	2016	X	X				X	X		X						
OK121300040150_00	Lost Creek	5.57	R	3	2015	X	X				X	X		X						
OK121300040160_00	Turkey Creek	4.79	R	3	2015	X	X				X	X		X						
OK121300040170_00	Cedar Creek	2.34	R	3	2015	X	X				X	X		X						
OK121300040180_00	Bull Creek	4.53	R	3	2015	X	X				X	X		X						
OK121300040190_00	Cedar Canyon Creek	5.03	R	3	2015	X	X				X	X		X						
OK121300040200_00	Eagle Creek	2.00	R	3	2015	X	X				X	X		X						
OK121300040210_00	Wildhorse Creek	8.40	R	3	2015	X	X				X	X		X						

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OK121300040220_00	Buck Creek	8.51	R	3	2015	X	X				X	X		X						
OK121300040230_00	Boar Creek	12.12	R	3	2015	X	X				X	X		X						
OK121300040240_00	Cedar Creek	5.46	R	3	2015	X	X				X	X		X						
OK121300040250_00	Sand Creek	6.82	R	3	2015	X	X				X	X		X						
OK121300040260_00	Mahala Creek	8.92	R	3	2015	X	X				X	X		X						
OK121300040270_00	Sunset Creek	7.28	R	3	2015	X	X				X	X		X						
OK121300040280_00	Hominy Creek	33.89	R	5a	2012	I	N				F	X		N		I				✓
OK121300040290_00	Penn Creek	13.06	R	3	2015	X	X				X	X		X						
OK121300040300_00	Moshetomoie Creek	6.54	R	3	2015	X	X				X	X		X						
OK121300040310_00	Blackbird Creek	6.91	R	3	2015	X	X				X	X		X						
OK121300040320_00	Claremore Creek	5.14	R	3	2015	X	X				X	X		X		X				✓
OK121300040330_00	Hominy Municipal Lake	165	L	2	2014	F	F				I	X		F		F				✓
OK121300040340_00	Hominy Lake, Lower	19	L	3	2016	X	X				X	X		X						
OK121300040350_00	Hominy Lake	165	L	5a	2016	F	F				N	X		F		F				
OK121300040360_00	Twomile Creek	8.37	R	3	2015	X	X				X	X		X						
OK121300040370_00	Little Hominy Creek	18.91	R	3	2015	X	X				X	X		X						
OK121300040380_00	Bitter Creek	7.83	R	3	2015	X	X				X	X		X						
OK121300040390_00	Happy Hollow Creek	3.03	R	3	2015	X	X				X	X		X						
OK121300040400_00	Niciola Creek (Nicolcold)	8.86	R	3	2015	X	X				X	X		X						
OK121300040410_00	Hellroaring Creek	2.48	R	3	2015	X	X				X	X		X						
OK121300040420_00	Rainbow Creek	4.57	R	3	2015	X	X				X	X		X						
OK121300040430_00	Turkey Run	3.02	R	3	2015	X	X				X	X		X						

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OK121300040440_00	Dollie Hollow Creek	3.05	R	3	2015	X	X				X	X		X						
OK121300040450_00	Moraledge Gulch	2.45	R	3	2015	X	X				X	X		X						
OK121300040460_00	Daniels Run	3.29	R	3	2015	X	X				X	X		X						
OK121400010010_00	Caney River	17.66	R	3	2015	X	X				X	X		X		X				
OK121400010010_10	Caney River	46.50	R	4a	2014	I	F				N	F		N		I				
OK121400010020_00	Hobbs Creek	1.46	R	3	2015	X	X				X	X		X						
OK121400010040_00	Collinsville Lake	10	L	3	2016	X	X				X	X		X						
OK121400010050_00	East Creek	5.46	R	3	2015	X	X				X	X		X						
OK121400010060_00	Horsepen Creek	9.75	R	3	2015	X	X				X	X		X						
OK121400010070_00	Blackjack Creek	6.31	R	3	2015	I	X				I	X		X						
OK121400010080_00	Cherry Creek	4.87	R	3	2015	X	X				X	X		X						
OK121400010090_00	Rabb Creek	5.64	R	2	2015	I	F				F	X		F		X				
OK121400010100_00	Saunders Creek	8.19	R	3	2015	X	X				X	X		X						
OK121400010110_00	Lacy Creek	5.37	R	3	2015	X	X				X	X		X						
OK121400010120_00	Bevan Creek	7.52	R	3	2015	X	X				X	X		X						
OK121400010130_00	Buck Creek	7.48	R	3	2015	X	X				X	X		X						
OK121400010140_00	Double Creek	7.17	R	3	2015	X	X				X	X		X						
OK121400010150_00	Double Creek, North Fork	7.86	R	3	2015	X	X				X	X		X						
OK121400010160_00	Double Creek Lake # 1	1	L	3	2016	X	X				X	X		X						
OK121400010170_00	Double Creek Lake # 6	1	L	3	2016	X	X				X	X		X						
OK121400010180_00	Nellie Bly Creek	3.99	R	3	2015	X	X				X	X		X		X				
OK121400010200_00	Todd Lake	14	L	3	2016	X	X				X	X		X						

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OK121400010210_00	Double Creek Lake # 4	1	L	3	2016	X	X				X	X		X						
OK121400010220_00	Double Creek, South Fork	4.74	R	3	2015	X	X				X	X		X						
OK121400010230_00	Double Creek Lake # 3	1	L	3	2016	X	X				X	X		X						
OK121400010240_00	Double Creek Lake # 2	1	L	3	2016	X	X				X	X		X						
OK121400010250_00	Stick Creek (Slick)	2.53	R	3	2015	X	X				X	X		X						
OK121400010260_00	Timberlake Creek	3.54	R	2	2015	I	F				I	I		F						
OK121400010270_00	Curl Creek	17.27	R	5a	2012	F	F				N	X		N						
OK121400010280_00	Fourmile Creek	9.92	R	3	2015	X	X				X	X		X						
OK121400010290_00	Purgatory Creek	6.92	R	3	2015	X	X				X	X		X						
OK121400010300_00	Hogshooter Creek	20.02	R	5a	2012	F					N	X		N						
OK121400010310_00	Fish Creek	12.04	R	3	2015	X	X				X	X		X						
OK121400010320_00	Keeler Creek	5.44	R	3	2015	X	X				X	X		X						
OK121400010322_00	East Keeler Creek	2.25	R	3	2015	X	X		X			X			X					
OK121400010330_00	Rice Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400020010_00	Caney River	4.50	R	3	2015	X	X				X	X		X		X				
OK121400020010_10	Caney River	25.54	R	3	2015	X	X				I	I		X		I				
OK121400020030_00	Turkey Creek	5.34	R	3	2015	X	X				X	X		X						
OK121400020040_00	Coon Creek	21.05	R	3	2015	X	X				X	X		X		X				
OK121400020050_00	Deer Creek	6.47	R	3	2015	X	X				X	X		X						
OK121400020060_00	Limestone Draw	5.47	R	3	2015	X	X				X	X		X						
OK121400020070_00	Cedar Creek	8.35	R	3	2015	X	X				X	X		X						
OK121400020080_00	Butler Creek	12.28	R	3	2015	X	X				X	X		X						

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OK121400020090_00	Hudson Lake	250	L	2	2012	F	F				I	X		F		F				
OK121400020100_00	Johnson Lake	1	L	3	2016	X	X				X	X		X						
OK121400020120_00	Bar-Dew Lake	34	L	3	2016	X	X				X	X		X						
OK121400020130_00	Post Oak Creek	8.05	R	3	2015	X	X				X	X		X						
OK121400020140_00	Little Caney River (Caney Creek)	5.52	R	5a	2012	F	F				N	X		N		I				✓
OK121400020150_00	Brush Creek	8.36	R	3	2015	X	X				X	X		X						
OK121400020160_00	Long Lake Creek	0.50	R	3	2015	X	X				X	X		X						
OK121400020170_00	Long Lake	1	L	3	2016	X	X				X	X		X						
OK121400020180_00	Young Lake	1	L	3	2016	X	X				X	X		X						
OK121400020190_00	Mission Creek	18.22	R	5a	2012	F	F				N	X		N						
OK121400020200_00	Hay Hollow Creek	3.27	R	3	2015	X	X				X	X		X						
OK121400020210_00	Coon Creek	9.23	R	3	2015	X	X				X	X		X						
OK121400020220_00	Lost Creek	4.11	R	3	2015	X	X				X	X		X						
OK121400020230_00	Possum Creek	4.60	R	3	2015	X	X				X	X		X						
OK121400030010_00	Caney River	13.46	R	3	2015	X	X				X	X		X		X				
OK121400030020_00	Hulah Lake	3,570	L	5a	2016	N	F				N	X		F		F				
OK121400030030_00	Skull Creek	3.26	R	3	2015	X	X				X	X		X		X				
OK121400030040_00	Hickory Creek	2.28	R	3	2015	X	X				X	X		X		X				
OK121400030050_00	Thunderbolt Creek	0.95	R	3	2015	X	X				X	X		X		X				
OK121400030060_00	Hickory Creek, East	0.53	R	3	2015	X	X				X	X		X		X				
OK121400030080_00	Turkey Creek	6.24	R	3	2015	X	X				X	X		X		X				
OK121400030090_00	Pond Creek	22.25	R	3	2015	X	X				X	X		X		X				

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OK121400030100_00	Birch Creek	7.19	R	3	2015	X	X				X	X		X		X				
OK121400030110_00	Spring Creek	6.77	R	3	2015	X	X				X	X		X		X				
OK121400030120_00	Fox Creek, North	3.54	R	3	2015	X	X				X	X		X		X				
OK121400030130_00	Dry Creek	5.70	R	3	2015	X	X				X	X		X		X				
OK121400030140_00	Pond Creek, South Fork	4.71	R	3	2015	X	X				X	X		X		X				
OK121400030150_00	Coon Creek	0.82	R	3	2015	X	X				X	X		X		X				
OK121400030160_00	Cedar Creek	0.78	R	3	2015	X	X				X	X		X		X				
OK121400030170_00	Buck Creek	22.22	R	5a	2012	I	F				N	X		N		I				
OK121400030180_00	Smith Creek	5.64	R	3	2015	X	X				X	X		X		X				
OK121400030190_00	Dog Creek	7.04	R	3	2015	X	X				X	X		X		X				
OK121400030200_00	Buck Creek, South	5.81	R	3	2015	X	X				X	X		X		X				
OK121400040010_00	Sand Creek	59.85	R	4a	2012	I	F				F	X		N		I				
OK121400040020_00	Eliza Creek	5.62	R	3	2015	X	X				X	X		X						
OK121400040030_00	Jessie Creek	4.38	R	3	2015	X	X				X	X		X						
OK121400040040_00	Panther Creek	7.39	R	3	2015	X	X				X	X		X						
OK121400040050_00	Buck Creek	17.61	R	2	2015	I	F				I	X		I		I				
OK121400040060_00	Turkey Creek	2.83	R	3	2015	X	X				X	X		X						
OK121400040070_00	Doe Creek	3.09	R	3	2015	X	X				X	X		X						
OK121400040080_00	Cedar Creek	3.71	R	3	2015	X	X				X	X		X						
OK121400040090_00	Ranch Creek	2.76	R	3	2015	X	X				X	X		X						
OK121400040100_00	Little Rock Creek	8.61	R	3	2015	X	X				X	X		X						
OK121400040120_00	Higo Lake (Wah Shah She)	8	L	3	2016	X	X				X	X		X						

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OK121400040130_00	Clyde Lake	70	L	3	2016	X	X				X	X		X						
OK121400040140_00	Ponce de Leon Spring Lake	1	L	3	2016	X	X				X	X		X						
OK121400040150_00	Whisky Hollow Creek	2.27	R	3	2015	X	X				X	X		X						
OK121400040160_00	Paula Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400040170_00	Lost Creek	4.96	R	3	2015	X	X				X	X		X						
OK121400040180_00	Peters Lake	8	L	3	2016	X	X				X	X		X						
OK121400040190_00	Lookout Lake	7	L	3	2016	X	X				X	X		X						
OK121400040200_00	Rock Creek	13.00	R	3	2015	X	X				X	X		X						
OK121400040210_00	Dry Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121400040220_00	Elm Creek	5.03	R	3	2015	X	X				X	X		X						
OK121400040230_00	Sunset Lake	68	L	3	2016	X	X				X	X		X						
OK121400040250_00	Deer Lake	12	L	3	2016	X	X				X	X		X						
OK121400040260_00	Cedar Creek	8.22	R	3	2015	X	X				X	X		X						
OK121400040270_00	Little Sand Creek	4.64	R	3	2015	X	X				X	X		X						
OK121400040280_00	Mud Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400040290_00	Wild Hog Creek	3.42	R	3	2015	X	X				X	X		X						
OK121400040300_00	Dry Creek	5.90	R	3	2015	X	X				X	X		X						
OK121400050010_00	Little Caney River (Caney Creek)	8.50	R	3	2015	X	X				X	X		X		X				✓
OK121400050020_00	Copan Lake	4,850	L	5a	2012	N	F				N	X		F		N				✓
OK121400050030_00	Copan Creek	2.64	R	3	2015	X	X				X	X		X		X				✓
OK121400050040_00	Cotton Creek	16.03	R	3	2015	X	X				X	X		X		X				✓
OK121400050050_00	Pooler Creek	6.29	R	3	2015	X	X				X	X		X		X				✓

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OK121400050060_00	Cotton Creek, North Fork	6.07	R	3	2015	X	X				X	X		X		X				✓
OK121400050070_00	Cotton Valley Creek	5.50	R	3	2015	X	X				X	X		X		X				✓
OK121400050080_00	Owen Creek	1.03	R	3	2015	X	X				X	X		X		X				✓
OK121500010005_00	Arkansas River	0.89	R	2	2015	X	X				X	X	F	X			F			
OK121500010010_00	Verdigris River	3.68	R	3	2015	X	X				X	X		X		X				
OK121500010020_00	Clingham Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010030_00	Clingham Creek	4.91	R	3	2015	X	X				X	X		X						
OK121500010040_00	Big Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010050_00	Big Creek	5.07	R	3	2015	X	X				X	X		X						
OK121500010060_00	Verdigris River	10.82	R	2	2015	X	X				F	X		X		F				
OK121500010070_00	Chouteau Lake	1	L	3	2014	X	X				X	X		X						
OK121500010080_00	Vans Creek	1.48	R	3	2015	X	X				X	X		X						
OK121500010090_00	Vans Lake	1	L	3	2016	X	X				X	X		X						
OK121500010100_00	Coal Creek	9.99	R	3	2015	X	X				X	X		X		X				
OK121500010120_00	Coal Creek Cutoff # 1 Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010130_00	Coal Creek Cutoff # 2 Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010140_00	Tulahassee Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010150_00	Tulahassee Creek	4.41	R	3	2015	X	X				X	X		X						
OK121500010160_00	Strawberry Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010170_00	Strawberry Creek	4.13	R	3	2015	X	X		X			X			X					
OK121500010175_00	Verdigris River, Unnamed Trib of	6.57	R	3	2018	X	X				X	X		X						
OK121500010180_00	Billy Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						

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OK121500010190_00	Billy Creek	10.21	R	3	2015	X	X				X	X		X						
OK121500010200_00	Verdigris River	6.11	R	4a	2015	F	F				F	F		N		F				
OK121500010220_00	Afton Landing Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010230_00	Verdigris Cutoff # 1a Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010240_00	Verdigris Cutoff # 1b Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010250_00	Gar Creek	9.39	R	3	2015	X	X				X	X		X						
OK121500010260_00	Fife Creek	9.04	R	3	2015	X	X				X	X		X						
OK121500010270_00	Coal Creek	16.14	R	3	2015	X	X				X	X		X		X				
OK121500010280_00	Okay Creek!	2.62	R	3	2015	X	X		X			X			X					
OK121500020010_00	Verdigris River	5.73	R	2	2015	X	X				F	X		X		F				
OK121500020030_00	Osage Mound Cutoff	1	L	3	2016	X	X				X	X		X						
OK121500020050_00	Flagg Lake	1	L	3	2016	X	X				X	X		X						
OK121500020070_00	Legas Lake	1	L	3	2016	X	X				X	X		X						
OK121500020080_00	Bull Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020090_00	Bull Creek	17.55	R	5a	2012	F	F				N	X		N						
OK121500020100_00	Pea Creek	10.23	R	4a	2014	I	X				I	X		N						
OK121500020110_00	Inola Creek	13.79	R	3	2015	X	X				X	X		X						
OK121500020120_00	Verdigris River	2.47	R	3	2015	X	X				X	X		X		X				
OK121500020130_00	Newt Graham Lake	1	L	3	2016	X	X				X	X		X						
OK121500020150_00	Adams Creek	18.02	R	5a	2015	I	I				I	X		N		X				
OK121500020160_00	Snake Den Lake	1	L	3	2016	X	X				X	X		X						
OK121500020170_00	Long Creek	3.13	R	3	2015	X	X				X	X		X						

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OK121500020190_00	Runaround Lake	1	L	3	2016	X	X				X	X		X						
OK121500020200_00	Long Lake	1	L	3	2016	X	X				X	X		X						
OK121500020210_00	Pecan Slough	1.79	R	3	2015	X	X				X	X		X						
OK121500020220_00	Commodore Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020230_00	Commodore Creek	4.55	R	3	2015	X	X				X	X		X						
OK121500020240_00	Big Bottom Cutoff # 1 (33.10) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020250_00	Big Bottom Cutoff # 2 (33.50) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020260_00	Verdigris River	18.71	R	4a	2014	F	F				N	F		N		I				
OK121500020260_10	Verdigris River	4.46	R	3	2014	X	X				X	X		X		X				
OK121500020270_00	Salt Creek	7.60	R	3	2015	X	X				X	X			X					
OK121500020275_00	Salt Creek, Unnamed Tributary of	3.14	R	3	2016	X	X		X			X			X					
OK121500020280_00	Fin & Feather Lake	1	L	3	2016	X	X				X	X		X						
OK121500020290_00	Highway 33 Cutoff (37.05) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020300_00	Big Flag Creek Cutoff (38.15) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020320_00	Big Flag Lake	1	L	3	2016	X	X				X	X		X						
OK121500020330_00	Little Flag Lake	1	L	3	2016	X	X				X	X		X						
OK121500020340_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						
OK121500020350_00	Dog Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020360_00	Dog Creek	10.08	R	5a	2012	F	F				N	X		N		I				
OK121500020370_00	Otter Creek	8.32	R	3	2015	X	X				X	X		X						
OK121500020380_00	Panther Creek	13.49	R	3	2015	X	X				X	X		X						
OK121500020390_00	Cat Creek	7.04	R	5a	2015	I	N				N	X		N			F			

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OK121500020410_00	Canyon Lake	1	L	3	2016	X	X				X	X		X						
OK121500020420_00	Cutoff (44.66) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020430_00	Mossy Creek	1.72	R	2	2015	X	X		X			X			X		F			
OK121500020440_00	Big Lake Creek	1.25	R	3	2015	X	X				X	X		X						
OK121500020450_00	Big Lake	1	L	3	2016	X	X				X	X		X						
OK121500020460_00	Cutoff (46.95) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020465_00	Verdigris River, Unnamed Tributary of	2.18	R	3	2016	X	X		X			X			X					
OK121500020470_00	Spunky Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020480_00	Spunky Creek	11.93	R	2	2015	I	I				F	X		X						
OK121500020490_00	Yonkipin Lake	33	L	3	2016	X	X				X	X		X						
OK121500020500_00	Spunky Creek, Unnamed Trib of	4.65	R	3	2016	X	X		X						X					
OK121500030010_00	Verdigris River	10.43	R	5a	2012	F	F				N	F		N		I				
OK121500030010_10	Verdigris River	11.99	R	3	2015	X	X				X	X		X		X				
OK121500030030_00	Boggy Creek	4.14	R	3	2015	X	X				X	X		X						
OK121500030040_00	Honey Creek	3.73	R	3	2015	X	X				X	X		X						
OK121500030050_00	Keetonville Creek	3.36	R	3	2015	X	X		X			X			X					
OK121500030060_00	Sweetwater Creek	6.58	R	3	2015	X	X				X	X		X						
OK121500030070_00	Fourmile Creek	13.93	R	3	2015	X	X				X	X		X						
OK121500040010_00	Dog Creek	16.87	R	5a	2015	I	I				N	X		I		I				✓
OK121500040020_00	Claremore Lake	470	L	5a	2014	I	F				I	X		F		N				✓
OK121500040030_00	Little Dog Creek	5.90	R	3	2015	X	X				X	X		X		X				✓
OK121510010010_00	Verdigris River	6.08	R	2	2015	X	X				I	X	F	X		X				

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OK121510010020_00	Oologah Lake	29,460	L	5a	2012	F	F				N	X	F	F		F				
OK121510010030_00	Blue Creek	2.68	R	3	2015	X	X				X	X		X		X				
OK121510010040_00	Spencer Creek	4.31	R	5a	2015	I	N				I	X		X		I				✓
OK121510010060_00	Chelsea Lake	50	L	3	2016	X	X				X	X		X		X				✓
OK121510010070_00	Talala Creek	1.04	R	3	2015	X	X				X	X		X						
OK121510010080_00	Talala Creek, South Fork	10.36	R	3	2015	X	X				X	X		X						
OK121510010090_00	Talala Creek, North Fork	6.19	R	3	2015	X	X				X	X		X						
OK121510010110_00	Campbell Creek	3.79	R	5a	2015	I	N				I	X		X						
OK121510010120_00	Plumb Creek	5.52	R	5a	2015	I	N				I	X		X						
OK121510010130_00	Lightning Creek	14.40	R	5a	2015	I	N				I	X		N		I				
OK121510010140_00	Panther Creek	6.97	R	5a	2015	I	N				I	X		X						
OK121510010150_00	Madden Creek	8.24	R	3	2015	X	X				X	X		X						
OK121510010160_00	Double Creek	0.97	R	3	2015	X	X				X	X		X						
OK121510010170_00	Double Creek, South Fork	7.97	R	3	2015	X	X				X	X		X						
OK121510010180_00	Double Creek, North Fork	8.13	R	3	2015	X	X				X	X		X						
OK121510010190_00	Salt Creek	16.25	R	3	2015	X	X				X	X		X		X				
OK121510010200_00	Kentucky Creek	4.33	R	3	2015	X	X				X	X		X						
OK121510010210_00	Little Salt Creek	6.47	R	3	2015	X	X				X	X		X						
OK121510010220_00	Western Branch	4.30	R	2	2015	I	F				I	X		X		X				
OK121510010230_00	Riley Lake	1	L	3	2016	X	X				X	X		X						
OK121510010240_00	Winganon Creek	2.37	R	2	2015	I	F				I	X		X						
OK121510020010_00	Verdigris River	37.43	R	5a	2012	F	F				N	N	F	N		I				

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OK121510020030_00	Riley Creek	3.78	R	3	2015	X	X				X	X		X						
OK121510020050_00	California Creek	25.39	R	5a	2012	F	F				N	X		N		I				
OK121510020060_00	Delaware Creek	4.11	R	2	2015	X	X		X			X			X		F			
OK121510020070_00	Morman Creek	9.20	R	3	2015	X	X				X	X		X						
OK121510020080_00	Wolf Creek	4.03	R	3	2015	X	X				X	X		X						
OK121510020090_00	Wolf Creek, South Fork	3.31	R	3	2015	X	X				X	X		X						
OK121510020100_00	Wolf Creek, North Fork	4.17	R	3	2015	X	X				X	X		X						
OK121510020110_00	Little California Creek	6.70	R	3	2015	X	X				X	X		X						
OK121510020120_00	Steamboat Creek	2.66	R	3	2015	X	X				X	X		X						
OK121510020130_00	Cedar Creek	9.23	R	3	2015	X	X				X	X		X						
OK121510020140_00	Fool Creek	1.90	R	3	2015	X	X				X	X		X						
OK121510020150_00	Tucker Creek	5.92	R	3	2015	X	X				X	X		X						
OK121510020170_00	Lenapah Creek	4.89	R	3	2015	X	X				X	X		X						
OK121510020180_00	Goose Neck Creek, East	4.67	R	3	2015	X	X				X	X		X						
OK121510020200_00	Goose Neck Lake	1	L	3	2016	X	X				X	X		X						
OK121510020220_00	Taylor Lake	1	L	3	2016	X	X				X	X		X						
OK121510020230_00	Goose Neck Creek, West	3.56	R	3	2015	X	X				X	X		X						
OK121510020240_00	Hickory Creek	7.66	R	3	2015	X	X				X	X		X						
OK121510020250_00	Snow Creek	7.29	R	2	2015	I	F				F	X		I		I				
OK121510020260_00	Crow Hollow Creek	6.13	R	3	2015	X	X				X	X		X						
OK121510020270_00	Rock Creek (Ross)	7.35	R	3	2015	X	X				X	X		X						
OK121510020280_00	Melton Lake	1	L	3	2016	X	X				X	X		X						

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OK121510020290_00	Opossum Creek	15.72	R	3	2015	X	X				X	X		X						
OK121510020300_00	Noxie Creek	5.44	R	3	2015	X	X				X	X		X						
OK121510020310_00	Vinegar Creek	4.50	R	3	2015	X	X				X	X		X						
OK121510020330_00	Chouteau Lake	1	L	3	2016	X	X				X	X		X						
OK121510020340_00	Onion Creek	0.95	R	3	2015	X	X				X	X		X		X				
OK121510030010_00	Big Creek	34.74	R	5a	2012	F	F				N	X		N		I				
OK121510030020_00	Childers Creek	2.41	R	3	2015	X	X				X	X		X						
OK121510030030_00	Rogers Mound Creek	2.67	R	3	2015	X	X				X	X		X						
OK121510030040_00	Coal Creek	4.60	R	3	2015	X	X				X	X		X						
OK121510030050_00	Looney Branch	5.46	R	3	2015	X	X				X	X		X						
OK121510030060_00	Blue Canyon Creek	4.53	R	3	2015	X	X				X	X		X						
OK121510030070_00	Notch Mound Creek	5.34	R	3	2015	X	X				X	X		X						
OK121510030080_00	Clear Creek	6.49	R	3	2015	X	X				X	X		X						
OK121510030090_00	Brush Creek	14.59	R	3	2015	X	X				X	X		X						
OK121510030100_00	Big Creek, East Fork	9.60	R	3	2015	X	X				X	X		X						
OK121510030110_00	Boggs Creek (Boggs Branch)	6.27	R	3	2015	X	X				X	X		X						
OK121510030120_00	Bethel Creek	2.71	R	3	2015	X	X				X	X		X						
OK121510030130_00	Labette Creek	5.80	R	3	2015	X	X				X	X		X						
OK121510030140_00	Little Labette Creek	3.73	R	3	2015	X	X				X	X		X						
OK121600010010_00	Neosho River	1.00	R	4a	2014	I	X				I	I		N		X				
OK121600010020_00	Dry Branch	4.82	R	3	2015	X	X				X	X		X						
OK121600010030_00	Flower Creek	5.68	R	3	2015	X	X				X	X		X						

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OK121600010040_00	Neosho River	7.25	R	3	2015	I	X				I	X		X		X				
OK121600010050_00	Fort Gibson Lake	12,464	L	5a	2014	I	F				N	X		I		I				
OK121600010060_00	Ranger Creek	7.94	R	5a	2015	F	F				N	X		N		X				
OK121600010070_00	Rattlesnake Branch	4.59	R	3	2015	X	X				X	X		X						
OK121600010080_00	Pecan Creek	9.19	R	3	2015	X	X				X	X		X						
OK121600010090_00	Double Springs Creek	15.49	R	3	2015	X	X				X	X		X		X				
OK121600010100_00	Fourteenmile Creek	25.45	R	4a	2012	F	F	F				F		N		F		✓		
OK121600010110_00	Wolf Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121600010120_00	Lost City Creek	1.19	R	3	2015	X	X				X	X		X						
OK121600010130_00	Black Bird Creek	10.27	R	3	2015	X	X	X				X		X		X				
OK121600010140_00	Money Bean Hollow Creek	2.03	R	3	2015	X	X				X	X		X						
OK121600010160_00	Hickory Creek	3.74	R	3	2015	X	X				X	X		X						
OK121600010200_00	Fort Gibson Lake, Upper	4,814	L	5a	2014	I	F				N	X		I		I				
OK121600010210_00	Clear Creek	12.60	R	3	2015	I	I	I				X		X		X				
OK121600010220_00	Little Clear Creek	8.16	R	3	2015	X	X				X	X		X						
OK121600010230_00	Jane Dennis Creek	3.61	R	3	2015	X	X				X	X		X						
OK121600010250_00	Flat Rock Creek	8.57	R	3	2015	X	X				X	X		X						
OK121600010260_00	Cat Creek	4.48	R	3	2015	X	X				X	X		X						
OK121600010270_00	Big Hollow Creek	2.89	R	3	2015	X	X				X	X		X						
OK121600010280_00	Neosho River	14.26	R	5a	2012	I	F				N	F		F		F				
OK121600010290_00	Spring Creek	39.70	R	5a	2012	F	F	F				F		N		F		✓		
OK121600010300_00	Pipe Springs Branch (Davis Hollow Creek)	7.01	R	3	2015	X	X				X	X		X						

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OK121600010310_00	Hogskin Hollow Creek	1.60	R	3	2015	X	X				X	X		X						
OK121600010320_00	Ballou Branch	2.96	R	3	2015	X	X				X	X		X						
OK121600010330_00	Snake Creek	15.19	R	3	2015	X	X	X				X		X				✓		
OK121600010340_00	Little Spring Creek	4.29	R	3	2015	X	X	X				X		X		X		✓		
OK121600010350_00	Bryant Creek	5.38	R	3	2015	X	X				X	X		X						
OK121600010360_00	Blacksmith Hollow Creek	5.04	R	3	2015	X	X				X	X		X						
OK121600010370_00	Dry Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121600010380_00	Yokum Hollow Creek	2.05	R	3	2015	X	X				X	X		X						
OK121600010390_00	Double Spring Creek	8.12	R	3	2015	X	X	X				X		X		X				
OK121600010400_00	Lowrey Creek	5.11	R	3	2015	X	X				X	X		X						
OK121600010410_00	Twin Oaks Creek	5.20	R	3	2015	X	X				X	X		X						
OK121600010420_00	Brush Creek	9.70	R	3	2015	X	X				X	X		X						
OK121600010430_00	Chouteau Creek	22.25	R	5a	2012	I	F				N	X		N		I				
OK121600010432_00	Chouteau Creek, Unnamed Trib of	3.31	R	3	2018	X	X		X			X			X					
OK121600010435_00	Chouteau Creek Tributary	4.44	R	3	2018	X	X				X	X			X					
OK121600010440_00	Crutchfield Branch	5.07	R	4a	2015	I	X				I	X		N						
OK121600010450_00	Chapel Branch	4.25	R	3	2015	X	X				X	X		X						
OK121600020010_00	Neosho River	1.26	R	3	2015	X	X				I	X		X		X				
OK121600020020_00	Hudson Lake, Lower	5,802	L	2	2012	F	F				I	X		F		I				
OK121600020030_10	Saline Creek	28.12	R	5a	2012	F	F	N				F		N		F				
OK121600020040_00	Chimney Rock Lake Creek	0.23	R	3	2015	X	X				X	X		X						
OK121600020050_00	WR Holway Reservoir (Chimney Rock Lake)	712	L	5a	2014	F	F				N	X		F		F				

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OK121600020060_00	Wickliffe Creek	9.34	R	3	2015	X	X				X	X		X						
OK121600020070_00	Little Saline Creek	10.50	R	5a	2015	F	I	F				X		N		I				
OK121600020080_00	Spade Hollow Creek	6.93	R	3	2015	X	X	X				X		X		X				
OK121600020090_00	Proctor Hollow Creek	6.31	R	3	2015	X	X				X	X		X						
OK121600020100_00	Ben Smith Hollow Creek	2.16	R	3	2015	X	X				X	X		X						
OK121600020110_00	Big Acorn Hollow Creek	2.33	R	3	2015	X	X				X	X		X						
OK121600020120_00	Wolf Creek	6.02	R	3	2015	X	X				X	X		X						
OK121600020140_00	Hudson Lake, Upper	4,021	L	2	2014	F	F				I	X		F		I				
OK121600020150_00	Spavinaw Creek	1.69	R	3	2015	X	X	X				X		X		X				✓
OK121600020160_00	Benge Branch	3.82	R	3	2015	X	X				X	X		X						
OK121600020170_00	Neosho River	10.89	R	5a	2012	F	F				N	F		F		I				
OK121600020180_00	Rock Creek	12.77	R	3	2015	X	X				X	X		X		X				
OK121600020190_00	Big Cabin Creek	1.91	R	3	2015	X	X				X	X		X		X				
OK121600020200_00	Summerfield Creek	10.38	R	3	2015	X	X				X	X		X						
OK121600020210_00	Round Spring Hollow Creek	5.49	R	3	2015	X	X				X	X		X						
OK121600030020_00	Grand Lake O' the Cherokees, Lower	10,051	L	5a	2012	F	F				N	N		I		I				
OK121600030030_00	Grand Lake O' the Cherokees, Middle	19,584	L	5a	2012	F	F				N	N		I		I				
OK121600030040_00	Grand Lake O' The Cherokees, Upper	8,670	L	5a	2012	F	F				N	N		I		I				
OK121600030070_00	Duck Creek	5.20	R	3	2015	X	X				X	X		X						
OK121600030090_00	Drowning Creek	8.66	R	4a	2015	F	F	F				X		N		I				
OK121600030100_00	Woods Springs Branch	3.98	R	3	2015	X	X				X	X		X						
OK121600030110_00	Muskrat Hollow Creek	5.45	R	3	2015	X	X				X	X		X						

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OK121600030120_00	Jay Creek	3.35	R	3	2015	X	X		X			X		X						
OK121600030130_00	Sweetwater Hollow Creek	2.41	R	3	2015	X	X				X	X		X						
OK121600030160_00	Horse Creek	10.06	R	5a	2015	I	N				N	X		N			F			
OK121600030180_00	Fly Creek	3.36	R	2	2014	F	F				I	X		I						
OK121600030190_00	Little Horse Creek	6.46	R	5a	2012	I	F				N	X		N						
OK121600030200_00	Oseuma Creek	4.28	R	3	2015	X	X				X	X		X						
OK121600030230_00	Woodward Hollow Creek	3.78	R	3	2015	X	X				X	X		X						
OK121600030250_00	Courthouse Hollow Creek	2.01	R	3	2015	X	X				X	X		X						
OK121600030295_00	Scraper Creek!	4.60	R	3	2015	X	X				X	X		X						
OK121600030310_00	Elm Creek	6.18	R	3	2015	X	X	X				X		X		X				
OK121600030320_00	Whitewater Creek	14.74	R	2	2015	I	F	F				X		I		I				
OK121600030330_00	Snail Creek	3.93	R	3	2015	X	X				X	X		X						
OK121600030340_00	Cave Springs Branch	4.48	R	4a	2012	I	I	I				I		N		I		✓		
OK121600030390_00	Wolf Creek	7.06	R	3	2015	X	X				X	X		X						
OK121600030410_00	Spring Branch	3.01	R	3	2015	X	X				X	X		X						
OK121600030420_00	Hickory Creek	4.34	R	3	2015	X	X				X	X		X						
OK121600030440_00	Elk River	3.29	R	2	2015	F	F	F				F		F		I				
OK121600030445_00	Honey Creek	4.85	R	4a	2012	F	F	F				F		N		I		✓		
OK121600030445_10	Honey Creek	4.64	R	5a	2014	I	I	F				X		N		X		✓		
OK121600030460_00	Carr Branch	4.97	R	3	2015	X	X				X	X		X						
OK121600030470_00	Buffalo Creek	2.51	R	3	2015	I	I				X	X		X						
OK121600030490_00	Council Hollow Creek	5.22	R	3	2015	X	X	X				X		X		X				

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OK121600030510_00	Sycamore Creek	7.36	R	4a	2015	I	F	N				X		N		I				
OK121600030520_00	Brush Creek	6.55	R	3	2015	I	I	I				X		X		X				
OK121600030530_00	Roark Creek	2.41	R	3	2015	X	X				X	X		X						
OK121600030540_00	Mason Springs Valley Creek	1.50	R	3	2015	X	X				X	X		X						
OK121600030550_00	Ogeechee Creek	3.65	R	3	2015	X	X				X	X		X						
OK121600030560_00	Lost Creek	10.23	R	5a	2015	F	F	F				X		N		I				
OK121600030570_00	Modoc Valley Creek	5.53	R	3	2015	X	X				X	X		X						
OK121600040010_00	Neosho River	16.57	R	5a	2015	F	F				N	F		F		I				
OK121600040040_00	Hudson Creek	8.28	R	5a	2015	F	F				N	X		I						
OK121600040043_00	Hudson Creek, Unnamed Tributary of	4.21	R	3	2015	X	X		X			X			X					
OK121600040050_00	Little Elm Creek	6.92	R	3	2015	I	I				I	X		X						
OK121600040060_00	Tar Creek	11.67	R	5a	2015				N			X			N					
OK121600040062_00	Blue Goose Mill Pond	5	L	5a	2020	X	X				X	N		X						
OK121600040063_00	Northwest Western Chat Pile Pond	1	L	5a	2020	X	X				X	N		X						
OK121600040064_00	Western Chat Pile Mill Pond	1	L	5a	2020	X	X				X	N		X						
OK121600040070_00	Miami Creek	3.41	R	3	2015	X	X				X	X		X						
OK121600040080_00	Garrett Creek	3.39	R	3	2015	X	X				X	X		X						
OK121600040090_00	Quapaw Creek	4.47	R	3	2015	X	X				X	X		X						
OK121600040100_00	Lytle Creek	4.20	R	3	2015	X	X				X	X		X						
OK121600040105_00	Atlas Chat Pile Pond	10	L	5a	2020	X	X				X	N		X						
OK121600040110_00	Coal Creek	9.75	R	3	2015	X	X				X	X		X						
OK121600040120_00	Neosho River	3.36	R	3	2015	X	X				X	X		X		X				

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OK121600040130_00	Cow Creek	12.42	R	5a	2015	F	F				N	X		I						
OK121600040140_00	Windy Creek	4.77	R	3	2015	X	X				X	X		X						
OK121600040150_00	Elm Creek	10.76	R	3	2015	X	X				X	X		X						
OK121600040160_00	Mud Creek	3.25	R	3	2015	X	X				X	X		X						
OK121600040170_00	Fourmile Creek	7.10	R	5a	2015	I	F				N	X		I						
OK121600040180_00	Squaw Creek	5.88	R	3	2015	X	X				X	X		X						
OK121600040190_00	Slow Creek	3.97	R	3	2015	X	X				X	X		X						
OK121600040200_00	Russell Creek	11.48	R	5a	2015	F	N				N	X		I						
OK121600040210_00	Elm Creek	5.42	R	3	2015	X	X				X	X		X						
OK121600040220_00	Neosho River	13.97	R	5a	2012	I	F				N	N		N		I				
OK121600050020_00	Spavinaw Lake	1,584	L	5a	2012	N	F				N	X		F		N				✓
OK121600050030_00	Chicken Hollow Creek	2.12	R	3	2015	X	X	X				X		X		X				✓
OK121600050040_00	Black Hollow Creek	3.70	R	3	2015	X	X	X				X		X		X				✓
OK121600050050_00	Groundhog Hollow Creek	2.48	R	3	2015	X	X	X				X		X		X				✓
OK121600050060_00	Spavinaw Creek	3.96	R	3	2015	X	X	X				X		X		X				✓
OK121600050070_00	Eucha Lake (Upper Spavinaw)	2,860	L	5a	2014	N	F				N	X		F		N				✓
OK121600050080_00	Galcatcher Hollow Creek	1.50	R	3	2015	X	X	X				X		X		X				✓
OK121600050090_00	Soldier Hollow Creek	1.26	R	3	2015	X	X	X				X		X		X				✓
OK121600050100_00	Rattlesnake Creek	4.44	R	3	2015	X	X	X				X		X		X				✓
OK121600050110_00	Runaway Hollow Creek	1.69	R	2	2015	I	F	F				X		I		I				✓
OK121600050120_00	Dry Creek	8.34	R	3	2015	X	X	X				X		X		X				✓
OK121600050130_00	Teesquatnee Hollow Creek	3.79	R	3	2015	X	X	X				X		X		X				✓

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OK121600050140_00	Brush Creek	16.51	R	3	2015	I	I	I				X		X		X		✓		
OK121600050150_00	Spavinaw Creek	15.00	R	5a	2012	F	I	F				X		N		I				✓
OK121600050160_00	Beaty Creek	12.44	R	5a	2015	F	I	F				X		N		I		✓		
OK121600050170_00	Town Creek	0.57	R	3	2015	X	X	X				X		X		X				✓
OK121600050180_00	Cloud Creek	12.93	R	5a	2015	I	I	I				X		N		X				✓
OK121600050190_00	Beartoter Hollow Creek	3.51	R	3	2015	X	X	X				X		X		X				✓
OK121600050200_00	Hog Eye Creek	5.83	R	3	2015	X	X	X				X		X		X				✓
OK121600050210_00	Beamer Hollow Creek	3.03	R	3	2015	X	X	X				X		X		X				✓
OK121600050220_00	Cherokee Creek	7.50	R	3	2015	X	X	X				X		X		X				✓
OK121600050230_00	Coon Creek	0.28	R	3	2015	X	X	X				X		X		X				✓
OK121600060010_00	Big Cabin Creek	6.13	R	2	2015	I	F				I	I		I		I				
OK121600060020_00	Granny Branch	3.24	R	3	2015	X	X				X	X		X						
OK121600060030_00	Elm Creek	6.13	R	3	2015	X	X				X	X		X						
OK121600060040_00	Mustang Creek	8.78	R	3	2015	X	X				X	X		X						
OK121600060060_00	Big Cabin Creek	5.34	R	2	2015	I	F				I	I		F		I				
OK121600060060_10	Big Cabin Creek	4.16	R	5a	2012	F	N				N	F			F					
OK121600060070_00	White Oak Creek	14.24	R	3	2015	I	I				I	X		X						
OK121600060080_00	Little Cabin Creek	32.31	R	5a	2015	F	N				N	X		N						
OK121600060090_00	Locust Creek	11.42	R	3	2015	X	X				X	X		X						
OK121600060100_00	Success Creek	5.82	R	3	2015	X	X				X	X		X						
OK121600060110_00	Cornatzar Creek	3.63	R	3	2015	X	X				X	X		X						
OK121600060120_00	Shawnee Creek	7.39	R	3	2015	X	X				X	X		X						

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OK121600060130_00	Coal Creek	6.16	R	3	2015	X	X				X	X		X						
OK121600060140_00	Jones Creek	6.75	R	3	2015	X	X				X	X		X						
OK121600060150_00	Possum Branch	2.69	R	3	2015	X	X				X	X		X						
OK121600060160_00	Wolf Creek	7.64	R	3	2015	X	X				X	X		X						
OK121600060170_00	Crow Creek	6.12	R	3	2015	X	X				X	X		X						
OK121600060180_00	Bluejacket Creek	4.82	R	3	2015	X	X				X	X		X						
OK121600060190_00	Welch Creek	3.32	R	3	2015	X	X				X	X		X						
OK121600060200_00	Bull Creek	10.83	R	5a	2015	F	N				N	X		N						
OK121600060210_00	Kelso Creek	3.09	R	3	2015	X	X				X	X		X						
OK121600060220_00	Big Cabin Creek	11.58	R	5a	2012	I	N				I	X			F					
OK121600060230_00	Pecan Creek	9.61	R	3	2015	X	X				X	X		X						
OK121600060240_00	Pawpaw Creek	18.40	R	5a	2015	F	N				N	X		N						
OK121600060250_00	White Creek	8.48	R	3	2015	X	X				X	X		X						
OK121600060260_00	Thompson Creek	4.64	R	3	2015	X	X				X	X		X						
OK121600060270_00	Elm Creek	6.90	R	3	2015	X	X				X	X		X						
OK121600060280_00	Big Cabin Creek, West Fork	14.68	R	3	2015	X	X				X	X		X						
OK121600060290_00	Big Cabin Creek, Middle Fork	9.15	R	3	2015	I	I				I	X		X						
OK121600060300_00	Big Cabin Creek	3.82	R	3	2015	X	X				X	X			X					
OK121600060300_10	Big Cabin Creek	25.58	R	3	2015	X	I				I	I		X						
OK121600060310_00	Mill Creek	4.99	R	3	2015	X	X				X	X		X						
OK121600060320_00	Frazier Branch	5.90	R	3	2015	X	X				X	X		X						
OK121600060330_00	Whisky Branch	3.39	R	3	2015	X	X				X	X		X						

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OK121600060340_00	McDonald Branch	4.92	R	3	2015	X	X				X	X		X						
OK121600060350_00	Deer Creek	6.21	R	3	2015	X	X				X	X		X						
OK121600060360_00	Wolfe Creek	3.79	R	3	2015	X	X				X	X		X						
OK121600060370_00	Willow Creek	2.73	R	3	2015	X	X				X	X		X						
OK121600060380_00	Banzet Creek	4.46	R	3	2015	X	X				X	X		X						
OK121600070010_00	Spring River	22.11	R	5a	2012	F	F	N				N		F		I				
OK121600070020_00	Shawnee Branch	3.41	R	3	2015	X	X	X				X		X		X				
OK121600070030_00	Shawnee Lake	1	L	3	2016	X	X				X	X		X						
OK121600070040_00	Flint Branch	5.45	R	3	2015	X	X	X				X		X		X				
OK121600070050_00	Warren Branch	9.10	R	2	2015	I	F	F				X		I		I		✓		
OK121600070060_00	Rock Creek	3.82	R	3	2015	X	X				X	X		X						
OK121600070070_00	Devil's Hollow Creek	3.50	R	3	2015	X	X	X				X		X		X				
OK121600070080_00	Elgin Creek	3.10	R	3	2015	X	X				X	X		X						
OK121600070090_00	Hockerville Creek	3.77	R	3	2015	X	X				X	X		X						
OK121600070100_00	Ontario Creek	3.53	R	3	2015	X	X				X	X		X						
OK121600070110_00	Fivemile Creek	5.81	R	5a	2012	F	F	N				F		N		F				
OK121600070120_00	Little Fivemile Creek	4.16	R	2	2015	I	F				F	X		I						
OK121600070130_00	Rock Branch	0.40	R	3	2015	X	X				X	X		X						
OK121610000010_00	Pryor Creek	7.00	R	3	2015	X	X				X	X		X						
OK121610000020_00	Sulphur Creek	5.33	R	3	2015	X	X				X	X		X						
OK121610000040_00	Scarbow Lake	150	L	3	2016	X	X				X	X		X						
OK121610000050_00	Pryor Creek	3.93	R	3	2015	X	X				X	X		X						

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OK121610000050_10	Pryor Creek	4.97	R	5a	2012	I	F				N	X		N		I				
OK121610000060_00	Midamerica Creek	4.24	R	3	2015	X	X				X	X		X						
OK121610000070_00	Seminole Creek	8.55	R	3	2015	X	X				X	X		X						
OK121610000080_00	Mud Creek	7.70	R	3	2015	X	X				X	X		X						
OK121610000090_00	Pryor Creek	2.35	R	5a	2015	F	F				N	X			I					
OK121610000090_10	Pryor Creek	12.12	R	3	2015	X	X				X	X			X					
OK121610000100_00	Salt Branch	6.08	R	3	2015	X	X				X	X		X						
OK121610000120_00	Adair Creek	4.83	R	3	2015	X	X				X	X		X						
OK121610000130_00	Bitter Creek	5.88	R	3	2015	X	X				X	X		X						
OK121610000140_00	Osage Creek	5.34	R	3	2015	X	X				X	X		X						
OK121610000150_00	Pryor Creek, Upper	25.16	R	3	2015	X	X				I	X		X						
OK121610000160_00	Little Pryor Creek	12.42	R	3	2015	X	X				X	X		X						
OK121610000170_00	Diver Creek	4.94	R	3	2015	X	X				X	X		X						
OK121610000180_00	Chelsea Creek	0.82	R	3	2015	X	X				X	X		X						
OK121610000190_00	Chelsea Creek, East	4.56	R	3	2015	X	X				X	X		X						
OK121610000200_00	Chelsea Creek, West	4.15	R	3	2015	X	X				X	X		X						
OK121700010010_00	Illinois River	9.47	R	2	2017	I	I			I		X	F	I		X		✓		
OK121700010020_00	Deep Branch	8.71	R	3	2017	X	X				X	X		X						
OK121700010030_00	Larue Branch	5.39	R	3	2017	X	X				X	X		X						
OK121700010040_00	Red Bird Smith Creek	8.48	R	3	2017	X	X				X	X		X						
OK121700010050_00	Pot Hollow	2.57	R	3	2017	X	X				X	X		X						
OK121700020020_00	Tenkiller Ferry Lake	8,442	L	5a	2014	N	F				N	X		F		I		✓		

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OK121700020030_00	Pine Creek	1.60	R	3	2017	X	X				X	X		X						
OK121700020040_00	Sawmill Hollow Creek	2.34	R	3	2017	X	X				X	X		X						
OK121700020050_00	Linder Bend Creek	1.28	R	3	2017	X	X				X	X		X						
OK121700020060_00	Salt Branch	1.07	R	3	2017	X	X				X	X		X						
OK121700020070_00	Burnt Cabin Creek	1.71	R	3	2017	X	X				X	X		X						
OK121700020080_00	Dogwood Creek	1.16	R	3	2017	X	X				X	X		X						
OK121700020090_00	Cato Creek	4.30	R	3	2017	X	X				X	X		X		X				
OK121700020100_00	Snake Creek	2.66	R	3	2017	X	X				X	X		X						
OK121700020110_00	Chicken Creek	3.54	R	5a	2017	I	I				N	X		X						
OK121700020130_00	Terrapin Creek	6.55	R	3	2017	X	X				X	X		X		X				
OK121700020140_00	Sixshooter Creek / Branch	2.73	R	3	2017	X	X				X	X		X						
OK121700020150_00	Sismore Creek	2.86	R	3	2017	X	X				X	X		X						
OK121700020160_00	Pettit Creek	2.48	R	3	2017	X	X				X	X		X						
OK121700020170_00	Big Hollow Creek	1.09	R	3	2017	X	X				X	X		X						
OK121700020180_00	Elk Creek	8.46	R	3	2017	X	X				X	X		X						
OK121700020190_00	Dry Creek	8.83	R	3	2017	X	X				X	X		X						
OK121700020200_00	Cave Springs Creek (Bolin Hollow)	5.60	R	3	2017	X	X				X	X		X						
OK121700020220_00	Tenkiller Ferry Lake, Illinois River Arm	5,032	L	5a	2008	N	F				I	X		F		N		✓		
OK121700020240_00	Carters Creek	4.06	R	3	2017	X	X				X	X		X						
OK121700020250_00	Mining Camp Hollow Creek, South	4.04	R	3	2017	X	X				X	X		X						
OK121700020260_00	Dripping Spring Hollow Creek	3.94	R	3	2017	X	X				X	X		X						
OK121700020270_00	Park Hill Branch	6.86	R	2	2017	I	I				F	X		X						

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OK121700020280_00	Manes Hollow Creek	3.21	R	3	2017	X	X				X	X		X						
OK121700020290_00	Ross Hollow Creek	1.35	R	3	2017	X	X				X	X		X						
OK121700020300_00	Illinois River	2.12	R	3	2017	X	X	X				X		X		X		✓		
OK121700020300_10	Illinois River	2.55	R	3	2017	X	X	X				X		X		X			✓	
OK121700020320_00	Indian Meadows Creek	2.34	R	3	2017	X	X				X	X		X						
OK121700020330_00	Indian Meadows Lake	1	L	3	2016	X	X				X	X		X						
OK121700030010_00	Illinois River	7.68	R	5a	2012	N	F	F				F		N		F			✓	
OK121700030020_00	Tahlequah Creek	1.84	R	2	2012	X	I	F				X		I		X			✓	
OK121700030030_00	Stick Ross Creek (Ross Branch)	4.54	R	3	2017	I	I				I	X		X						
OK121700030040_00	Tahlequah Creek (Town Branch)	6.21	R	5a	2012	I	I	I				X		N		X			✓	
OK121700030050_00	Red Oak Hollow Creek	2.68	R	3	2017	X	X				X	X		X						
OK121700030060_00	Little Steely Hollow Creek	2.00	R	3	2017	X	X				X	X		X						
OK121700030070_00	Briggs Hollow Creek, North	1.85	R	3	2017	X	X				X	X		X						
OK121700030080_00	Illinois River	31.68	R	5a	2012	N	I	N				F		N		I			✓	
OK121700030090_00	Pumpkin Hollow Creek	9.27	R	3	2017	X	X				X	X		X						
OK121700030100_00	Tully Hollow Creek (Borgen)	3.79	R	3	2017	X	X				X	X		X						
OK121700030110_00	Cedar Hollow Creek	3.60	R	3	2017	X	X				X	X		X						
OK121700030120_00	Steely Hollow Creek	3.12	R	3	2017	I	I				I	X		X						
OK121700030130_00	Combs Hollow Creek	2.52	R	3	2017	X	X				X	X		X						
OK121700030140_00	Telamay Hollow Creek	2.54	R	3	2017	I	I				I	X		X						
OK121700030150_00	Molly Field Hollow Creek	2.67	R	3	2017	X	X				X	X		X						
OK121700030160_00	Peavine Hollow Creek	3.35	R	3	2017	X	X				X	X		X						

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OK121700030170_00	Dog Hollow Creek	4.05	R	3	2017	X	X				X	X		X						
OK121700030180_00	Scraper Hollow Creek	2.96	R	3	2017	X	X				X	X		X						
OK121700030190_00	Kirk Springs Hollow Creek	3.36	R	3	2017	X	X				X	X		X						
OK121700030200_00	Sawmill Hollow Creek	2.32	R	3	2017	X	X				X	X		X						
OK121700030210_00	Falls Branch	4.75	R	3	2017	X	X				X	X		X						
OK121700030220_00	Black Fox Hollow Creek	6.18	R	3	2017	X	X				X	X		X						
OK121700030230_00	Winset Hollow Creek	4.95	R	3	2017	X	X				X	X		X		X				
OK121700030240_00	Hasting Hollow Branch	2.53	R	3	2017	X	X				X	X		X						
OK121700030250_00	Fall Branch	5.23	R	3	2017	I	X				I	X		X						
OK121700030260_00	Luna Branch	5.06	R	3	2017	X		X				X		X						
OK121700030270_00	Cherokee Mission Creek	2.54	R	3	2017	X	X				X	X		X						
OK121700030280_00	Illinois River	15.65	R	5a	2012	N	F	N				F		N		F			✓	
OK121700030290_00	Flint Creek	1.60	R	5a	2012	N	F	N				X		I		X			✓	
OK121700030300_00	Kill Hollow Creek	4.41	R	3	2017	X	X				X	X		X						
OK121700030310_00	Dripping Springs Branch	5.04	R	3	2017	X	X				X	X		X						
OK121700030320_00	Rock Branch	3.40	R	3	2017	X	X				X	X		X						
OK121700030330_00	Tate Parris Branch	3.71	R	3	2017	X	X				X	X		X						
OK121700030340_00	Beaver Creek (Indiangrave Hollow)	2.33	R	3	2017	X	X				X	X		X						
OK121700030350_00	Illinois River	5.18	R	5a	2012	N	F	N				F		N		F			✓	
OK121700030360_00	Frances Lake	562	L	3	2016	X	X				X	X		X						
OK121700030370_00	Ballard Creek	12.60	R	5a	2012	I	F	F				X		N		X			✓	
OK121700040010_00	Caney Creek	20.92	R	5c	2017	F	F	F				F		N		F				

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OK121700040020_00	Negro Jake Hollow Creek	5.74	R	3	2017	X	X	X				X		X						
OK121700040030_00	Tailholt Creek	3.83	R	3	2017	X	X				X	X		X						
OK121700040040_00	Bidding Creek	6.36	R	3	2017	X	I				I	X		I						
OK121700040050_00	Spade Creek	5.23	R	3	2017	X	X				X	X		X						
OK121700040060_00	Spade Branch	3.83	R	3	2017	X	X				X	X		X						
OK121700040070_00	Smith Hollow Creek	4.22	R	2	2017	X	X				F	X		X						
OK121700040080_00	Goat Mountain Creek	3.61	R	3	2017	X	X				X	X		X						
OK121700040090_00	Mulberry Hollow Creek	3.55	R	3	2017	X	X				X	X		X						
OK121700050005_00	Illinois River, Baron Fork	1.08	R	3	2017	I	I	X				X		X					✓	
OK121700050010_00	Illinois River, Baron Fork	25.15	R	5a	2012	N	F	F				F		N		F			✓	
OK121700050030_00	Welling Creek	3.53	R	3	2017	X	X				X	X		X						
OK121700050040_00	Mining Camp Hollow Creek, North	2.91	R	3	2017	X		X				X		X						
OK121700050050_00	Willow Branch Creek	2.94	R	3	2017	X	X				X	X		X						
OK121700050052_00	Field Hollow Creek	3.01	R	3	2017	X	X				X	X		X						
OK121700050060_00	Briggs Hollow Creek, South	5.39	R	3	2017	X	X				X	X		X						
OK121700050070_00	Walltrip Branch	6.90	R	3	2017	X	X				I	X		X						
OK121700050080_00	Proctor Mountain Creek	4.07	R	3	2017	X	I				I	X		I						
OK121700050090_00	Tyner Creek	15.92	R	5a	2012	I	I	F				X		N		X			✓	
OK121700050100_00	South Proctor Creek, West	4.11	R	3	2017	X	X				X	X		X						
OK121700050110_00	Dennison Hollow Creek	2.64	R	3	2017	X	X	X				X		X		X			✓	
OK121700050111_00	South Proctor Creek, East	4.61	R	3	2017	X	X				X	X		X						
OK121700050120_00	Peach eater Creek	10.95	R	5a	2012	I	I	F				X		N		I			✓	

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OK121700050130_00	Scraper Hollow Creek	2.78	R	3	2012	I	I	X				X		X		X			✓	
OK121700050140_00	England Hollow Creek	6.08	R	3	2017	X	X	X				X		X		X			✓	
OK121700050150_00	Green Creek	7.82	R	3	2017	X	I	I				X		I		X			✓	
OK121700050160_00	Westville Lake	1	L	3	2016	X	X				X	X		X						
OK121700050170_00	Illinois River, Baron Fork	3.27	R	3	2012	I	X	X				X		X					✓	
OK121700050170_10	Illinois River, Baron Fork	7.78	R	5a	2012	X	I	F				X		N		X			✓	
OK121700050180_00	Shell Branch	7.77	R	3	2012	I	I	I				X		X		X			✓	
OK121700050190_00	Peavine Creek	7.19	R	3	2012	X	X	I				X		I						
OK121700050200_00	Evansville Creek	13.47	R	3	2017	X	X	X				X		X		X			✓	
OK121700050210_00	West Branch	1.51	R	3	2012	X	X				X	X		X						
OK121700060010_00	Flint Creek	7.75	R	5a	2012	N	F	F				F		N		F			✓	
OK121700060010_10	Flint Creek	3.54	R	3	2012	I	X	I				X		X		X			✓	
OK121700060020_00	Fivemile Hollow Creek	4.97	R	3	2017	X	X				X	X		X						
OK121700060030_00	Calunchety Hollow Creek	3.67	R	3	2017	X	X				X	X		X						
OK121700060040_00	Battle Creek (Battle Branch)	5.43	R	5a	2012	F	F				F	X		N						
OK121700060050_00	Blue Spring Branch	1.97	R	3	2017	X	X				X	X		X						
OK121700060060_00	Hazelnut Hollow Creek	1.99	R	3	2017	X	X				X	X		X						
OK121700060070_00	Crazy Creek (Glasby)	5.51	R	3	2017	X	X				X	X		X						
OK121700060080_00	Sager Creek	4.15	R	5a	2012	I	F	F				F		N		F			✓	
OK121700060100_00	Fagan Creek	2.78	R	3	2012	X	X	X				X		X		X			✓	

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OK220100010010_00	Poteau River	23.89	R	5a	2012	F	F				N	N		F		I				
OK220100010010_05	Poteau River	3.35	R	3	2012	X	X				X	X		X		X				
OK220100010010_10	Poteau River	1.55	R	3	2012	X	X				X	X		X		X				
OK220100010010_20	Poteau River	9.21	R	3	2012	X	X				X	X		X		X				
OK220100010010_30	Poteau River	2.24	R	5a	2012	X	X				N	N		X		N				
OK220100010010_40	Poteau River	21.35	R	5a	2012	I	F				N	I		F		I				
OK220100010020_00	Cedar Creek	3.15	R	3	2012	X	X				X	X		X						
OK220100010030_00	Cedar Creek, Trib	1.51	R	3	2017	X	X				X	X		X						
OK220100010040_00	Holi-Tuska Creek	5.62	R	3	2012	X	X				X	X		X		X				✓
OK220100010050_00	New Spiro Lake	254	L	5a	2014	N	F				N	X		F		N				✓
OK220100010060_00	Coal Creek	6.77	R	3	2017	X	X				X	X		X						
OK220100010070_00	Poteau River, James Fork	16.87	R	3	2012	I	I				I	X		X		X				
OK220100010080_00	Poteau River, James Fork, Trib	3.97	R	3	2012	X	X				X	X		X						
OK220100010110_00	Rock Creek	7.13	R	3	2017	X	X				X	X		X						
OK220100010120_00	Riddle Creek	12.59	R	3	2017	X	X		X			X			X					
OK220100010130_00	Cameron Creek	3.40	R	3	2017	X	X		X			X			X					
OK220100010140_00	Polk Creek	5.33	R	3	2017	X	X				X	X		X						
OK220100010150_00	Town Creek	4.31	R	3	2017	X	X				X	X		X						
OK220100010160_00	Sugarloaf Creek	15.00	R	2	2017	I	I				F	X		X		X				
OK220100010170_00	Morris Creek	13.63	R	3	2017	X	X				X	X		X						
OK220100010180_00	Caston Creek	14.43	R	5a	2017	X	X				N	X		X		X				
OK220100010190_00	Mountain Creek	8.75	R	2	2017	X	X				F	X		X						

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OK220100010200_00	Coal Creek	8.99	R	2	2017	X	X				X	X		X			F			
OK220100010210_00	Coal Creek, Trib	2.47	R	3	2017	X	X				X	X		X						
OK220100010220_00	Coal Creek, Trib	3.44	R	3	2017	X	X				X	X		X						
OK220100010240_00	Nail Creek	12.30	R	3	2017	I	X				I	X		X						
OK220100010250_00	Double Branch Creek	4.34	R	2	2017	I	X				F	X		X						
OK220100010260_00	Rock Creek	3.89	R	3	2017	X	X				X	X		X						
OK220100010265_00	Rock Creek Tributary!	2.01	R	3	2017	I	X				I	X		X						
OK220100010270_00	Little Mountain Creek	6.21	R	2	2017	X	X				F	X		X						
OK220100020010_10	Poteau River	27.04	R	5a	2012	F	F				F	N		N		I				
OK220100020020_00	Wister Lake	7,333	L	5a	2012	N	F				N	N		F		N				
OK220100020030_00	Poteau River, Black Fork	1.96	R	3	2012	I	I				I	X		X		X				
OK220100020040_00	Poteau River, Black Fork	28.60	R	5a	2012	I	F				N	X		I		I				
OK220100020050_00	Cedar Creek	6.96	R	2	2012	I	X				F	X		X		X				
OK220100020060_00	Cedar Lake	78	L	5a	2016	F	F				N	X		F		I				
OK220100020070_00	Shawnee Creek	7.75	R	3	2017	X	X				X	X		X		X				
OK220100020080_00	Big Creek	12.57	R	3	2017	X	X	X				X		X		X				
OK220100020090_00	Big Creek, Trib	5.97	R	2	2017	X	X				X	X		X		X	F			
OK220100020100_00	Oil Branch	5.39	R	3	2017	X	X				X	X		X		X				
OK220100020110_00	Oil Branch, Trib	4.33	R	3	2017	X	X				X	X		X		X				
OK220100030010_00	Brazil Creek	17.83	R	5a	2012	F	F				F	X		N		I				
OK220100030010_10	Brazil Creek	30.29	R	3	2017	I	X				X	X		X		X				
OK220100030020_00	Buck Creek	8.89	R	3	2017	X	X				X	X		X						

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OK220100030030_00	Doe Creek	1.83	R	3	2017	X	X				X	X		X						
OK220100030040_00	Bokoshe Lake	21	L	3	2016	X	X				X	X		X						
OK220100030050_00	Owl Creek	11.78	R	3	2017	X	X				X	X		X						
OK220100030060_00	Wolf Creek	6.26	R	2	2017	I	X				F	X		X						
OK220100030070_00	Wolf Creek, Trib	1.32	R	3	2017	X	X				X	X		X						
OK220100030080_00	Reese Lake	17	L	3	2016	X	X				X	X		X						
OK220100040010_00	Fourche Maline Creek	3.99	R	3	2012	I	I				I	X		X		I				
OK220100040020_00	Fourche Maline Creek	36.94	R	5a	2012	F	F				N	F		N		I				
OK220100040020_10	Fourche Maline Creek	21.35	R	3	2012	I	X				I	X		X		X				
OK220100040030_00	Holson Creek	17.38	R	2	2012	I	F				F	X		X		X				
OK220100040040_00	Long Creek	13.16	R	3	2012	I	I				I	X		X		X				
OK220100040050_00	Red Oak Creek	10.95	R	5a	2014	I					N	X		X						
OK220100040060_00	Pigeon Creek	6.16	R	3	2017	I	I				I	X		X		X				
OK220100040070_00	Little Fourche Maline Creek	13.67	R	2	2017	I	I				F	X		X		I				
OK220100040080_00	Bandy Creek	12.44	R	5a	2017	I	I				N	X		X						
OK220100040090_00	Bandy Creek, Unnamed Trib of	4.98	R	3	2017	X	X				X	X		X		X				✓
OK220100040100_00	Lloyd Church Lake (Wilburton City)	160	L	5a	2014	F	F				N	X		F		I				✓
OK220100040110_00	Fourche Maline Creek, Trib	1.97	R	3	2017	X	X		X			X			X					
OK220100040120_00	Coon Creek	3.13	R	3	2017	X	X				X	X		X		X				✓
OK220100040130_00	Coon Creek Lake	32	L	3	2016	X	X				X	X		X		X				✓
OK220100040140_00	Carlton Lake	52	L	3	2016	X	X				X	X		X						
OK220100040150_00	Wayne Wallace Lake	94	L	5a	2014	N	F				N	X		F		F				

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OK220100040160_00	Rough Canyon Creek	2.28	R	3	2012	X	X				X	X		X		X				
OK220100040170_00	Smooth Creek	0.73	R	3	2012	X	X				X	X		X		X				
OK220100040180_00	Coal Creek	10.49	R	3	2017	X	X				X	X		X		X				
OK220100040190_00	Spring Creek	6.35	R	3	2017	X	X				X	X		X						
OK220200010010_00	Arkansas River	20.59	R	5a	2012	I	I				F	F	F	N		X				
OK220200010020_00	Camp Creek	11.45	R	3	2017	X	X	X				X		X		X				
OK220200010025_00	Muldrow Lake	76	L	3	2016	X	X				X	X		X		X				
OK220200010030_00	Big Skin Bayou	7.83	R	3	2017	I	I				I	X		X		X				
OK220200010030_10	Big Skin Bayou	18.51	R	2	2017	I	X				F	X		X		X				
OK220200010040_00	Little Skin Bayou	11.22	R	3	2017	X	X				X	X		X						
OK220200010050_00	Center Point Cemetery Creek!	2.77	R	3	2017	X	X				X	X		X						
OK220200010060_00	Cache Creek	20.75	R	5a	2012	I	F				N	X		X		I				
OK220200010070_00	Redbank Creek	4.73	R	3	2017	X	X				X	X		X						
OK220200010090_00	Coal Creek	13.19	R	3	2017	X	X				X	X		X						
OK220200010100_00	Onion Creek	11.15	R	3	2017	X	X		X			X			X					
OK220200010110_00	Rabbit Branch	5.74	R	3	2017	X	X				X	X		X						
OK220200020010_00	Arkansas River	8.51	R	2	2017	X	X				X	X	F	X		X				
OK220200020020_00	Robert S. Kerr Lake	43,380	L	5a	2014	N	F				N	X	F	I		I				
OK220200020040_00	Little Sallisaw Creek	17.59	R	5a	2017	I	I				N	X		X		I				
OK220200020050_00	Hog Creek	8.84	R	3	2017	X	X				X	X		X						
OK220200020055_00	Hog Creek Trib!	2.92	R	3	2017	X	X				X	X		X						
OK220200020070_00	Mule Creek	8.91	R	3	2017	X	X				X	X		X						

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OK220200020090_00	Club Lake	1	L	3	2016	X	X				X	X		X						
OK220200020110_00	Lone Star Steel Lake	1	L	3	2016	X	X				X	X		X						
OK220200020120_00	Little Sans Bois Creek	9.80	R	3	2012	X	X				X	X		X						
OK220200020130_10	Vian Creek	21.42	R	3	2017	I	I	X				X		X		X				
OK220200020140_00	Little Vian Creek	12.78	R	3	2017	X	X	X				X		X		X				
OK220200020150_00	Pheasant Creek	5.03	R	3	2017	X	X				X	X		X						
OK220200020160_00	Brier Creek	6.43	R	3	2017	X	X				X	X		X						
OK220200030010_10	Sallisaw Creek	9.00	R	5a	2012	F	F	F				X		N		I		✓		
OK220200030010_20	Sallisaw Creek	13.30	R	5a	2012	I	F	F				X		N		I		✓		
OK220200030010_30	Sallisaw Creek	14.80	R	2	2012	X	F	I				X		I				✓		
OK220200030020_00	Shiloh Branch	3.65	R	3	2017	X	X				X	X		X						
OK220200030030_00	Brushy Creek	13.17	R	3	2017	X	X	X				X		X		X				✓
OK220200030035_00	Shiloh Branch, Unnamed Tributary of	3.33	R	3	2017	X	X		X			X			X					
OK220200030040_00	Brushy Creek Lake	358	L	5a	2014	F	F				N	X		F		N				✓
OK220200030050_00	Brushy Lake	227	L	3	2014	X	X				X	X		X		X				✓
OK220200030060_00	Dry Creek	8.52	R	3	2017	X	X				X	X		X						
OK220200030070_00	Marble City Lake	1	L	3	2016	X	X				X	X		X						
OK220200030080_00	Greasy Creek	9.15	R	3	2017	X	X	X				X		X		X				
OK220200030100_00	Greasy Lake	1	L	3	2016	X	X				X	X		X						
OK220200030120_00	Stilwell City Lake	188	L	5a	2014	F	F				N	X		F		X				
OK220200030130_00	McEachin Hollow	4.29	R	3	2012	I	X				I	X		X						
OK220200040010_00	Sans Bois Creek	6.08	R	3	2012	I	I				I	X		I		I				

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OK220200040010_10	Sans Bois Creek	10.76	R	5a	2012	I	N				F	X		N		I				
OK220200040010_20	Sans Bois Creek	5.38	R	3	2012	X	X				X	X		X		X				
OK220200040010_30	Sans Bois Creek	7.14	R	3	2012	X	X				X	X		X		X				
OK220200040010_40	Sans Bois Creek	27.80	R	5a	2012	I	F				N	X		N		I				
OK220200040020_00	Pruit Valley Creek (John Wells (Stigler))	10.02	R	3	2012	X	X				X	X		X						
OK220200040030_00	John Wells Lake (Stigler)	194	L	5a	2012	F	F				N	X		F		F				✓
OK220200040050_00	Sans Bois Creek, Mountain Fork	13.63	R	5a	2012	F	F				N	X		N						
OK220200040060_00	Beaver Creek	13.04	R	2	2012	X	X				X	X		X			F			
OK220200040080_00	Quinton City Lake	25	L	3	2016	X	X				X	X		X						
OK220200040090_00	Sans Bois Creek, Unnamed Trib of	3.61	R	3	2018	X	X				X	X		X						
OK220200050010_00	Lee Creek	1.87	R	5a	2012	I	F	N				X		N		I		✓		
OK220200050010_10	Lee Creek	15.66	R	5a	2012	I	F	N				F		F		F			✓	
OK220200050020_00	Webber Creek	1.97	R	3	2012	X	X	X				X		X		X			✓	
OK220200050030_00	Briar Creek (Bear)	5.81	R	3	2012	X	X	X				X		X		X			✓	
OK220200050035_00	Mission Branch	6.47	R	3	2012	X	X				X	X		X						
OK220200050040_00	Little Lee Creek	23.66	R	5a	2012	I	F	I				X		N		F			✓	
OK220200050050_00	Jenkins Creek	6.67	R	2	2012	I	I	F				X		X		X			✓	
OK220200050060_00	Garrison Creek	2.97	R	3	2012	X	X				X	X		X		X				
OK220200050060_10	Garrison Creek	4.16	R	3	2012	X	X				X	X		X		X				
OK220200050070_00	Garrison Creek, Unnamed Tributary of	6.29	R	3	2012	X			X						X					
OK220200050080_00	Candy Mink Creek	1.89	R	3	2012	X	X	X				X		X		X			✓	
OK220300000010_00	Canadian River	25.72	R	2	2012	I	F				F	F	F	F		I				

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OK220300000020_00	Taloka Creek	16.00	R	3	2012	I	X				I	X		X		X				
OK220300000030_00	Snake Creek	7.25	R	3	2012	X	X				X	X			X					
OK220300000040_00	Emachaya Creek	16.27	R	3	2012	X	X				X	X		X		X				
OK220600010015_00	Mud Creek	5.66	R	3	2012	X	X				X	X		X		X				
OK220600010020_00	Eufaula Lake	14,689	L	2	2012	F	F				I	X		I		I				
OK220600010030_00	Brooken Creek	5.75	R	3	2012	X	X				X	X		X						
OK220600010040_00	Brooken Creek, Trib	2.28	R	3	2012	X	X				X	X		X						
OK220600010050_00	Eufaula Lake, Canadian River Arm	19,040	L	5a	2012	N	F				N	X		I		I				
OK220600010060_00	Eufaula Lake, Longtown Creek Arm	3,857	L	2	2012	F	I				I	X		I		I				
OK220600010070_10	Longtown Creek	12.14	R	5a	2012	F	F				N	X		N		F				
OK220600010080_00	Lick Creek	2.37	R	3	2012	X	X				X	X		X						
OK220600010100_10	Mill Creek	3.28	R	3	2012	X	X				X	X		X		X				
OK220600010100_20	Mill Creek	24.16	R	5a	2012	I	F				N	X		N		I				
OK220600010110_00	Flat Rock Creek	6.43	R	3	2012	X	X				X	X		X						
OK220600010119_00	Canadian River	5.41	R	3	2012	X	X				X	X		X		X				
OK220600010119_10	Canadian River	39.08	R	5a	2012	I	N				N	N		N		I				
OK220600010120_00	Scipio Creek	20.25	R	3	2012	X	X				X	X		X						
OK220600010128_00	Canadian River, Unnamed Tributary of	1.79	R	3	2012	X	X		X			X			X					
OK220600010130_00	Hay Creek	4.70	R	5c	2012	N	I				N	X		X						
OK220600010140_00	Cindy Creek	7.01	R	2	2012	I	F				I	X		X						
OK220600010150_00	Pond Creek	5.55	R	2	2012	F	F				I	X		X						
OK220600010160_00	Gobbler Creek	7.80	R	3	2012	I	I				I	X		X		I				

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OK220600010170_00	Big Creek	11.00	R	3	2012	I	I				I	X		X						
OK220600010180_00	Leader Creek	6.26	R	3	2012	X					X	X		X						
OK220600010190_00	Middle Creek	11.64	R	3	2016	X	X				X	X		X						
OK220600010200_00	Coal Creek	8.55	R	3	2016	X	X				X	X		X						
OK220600010210_00	Salt Creek	14.67	R	3	2016	X	X				X	X				X				
OK220600010220_00	Shell Creek	9.50	R	3	2016	X	X				X	X		X						
OK220600010230_00	Shell Creek, Unnamed Trib of	1.56	R	3	2016	X	X				X	X		X						
OK220600020010_10	Coal Creek	9.77	R	3	2012	X	X				X	X		X		X				
OK220600020010_20	Coal Creek	33.18	R	3	2012	X	X				X	X		X		X				
OK220600020020_00	Bull Creek	7.67	R	3	2012	X	X				X	X		X		X				✓
OK220600020030_00	McAlester Lake	1,521	L	5a	2016	N	F				N	N		F		F				✓
OK220600020050_00	Talawanda 2 Lake	195	L	2	2014	F	F				I	X		F		X				
OK220600020060_00	Talawanda 1 Lake	91	L	5a	2012	F	F				N	X		F		X				
OK220600020070_00	Big Wildhorse Creek	23.43	R	3	2012	X	X				X	X		X						
OK220600020080_00	Deer Creek	12.67	R	3	2012	X	X				X	X		X						
OK220600020090_00	Sandy Creek	5.71	R	3	2012	X	X				X	X			X					
OK220600020093_00	Sandy Creek, Unnamed Tributary of	5.19	R	2	2012	I	X				F	X			X					
OK220600020100_00	Coal Creek, Trib A!	1.96	R	3	2012	X	I				I	X		X						
OK220600030010_00	Brushy Creek	2.96	R	5a	2012	I	F				N	N		N		I				
OK220600030010_10	Brushy Creek	25.03	R	5a	2012	F	F				I	I		N		I				
OK220600030010_20	Brushy Creek	11.30	R	3	2012	I	X				X	X		X		X				
OK220600030020_00	Blue Creek	10.68	R	4a	2012	I	X				I	X		N		X				

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OK220600030022_00	Blue Creek, Unnamed Tributary of	2.37	R	3	2012	X	X				X	X		X						
OK220600030025_00	Blue Creek, Hartshorne Trib!	1.66	R	3	2012	X	X				X	X		X						
OK220600030030_00	Rock Creek	6.97	R	3	2012	X	X				X	X		X						
OK220600030040_00	Hartshorne Lake	83	L	3	2016	X	X				X	X		X						
OK220600030050_00	Peaceable Creek	17.14	R	5a	2012	F	N				N	I		N		I				
OK220600030050_10	Peaceable Creek	5.62	R	3	2012	X	X				X	X		X		X				
OK220600030050_20	Peaceable Creek	6.40	R	3	2012	X	X				X	X		X		X				
OK220600030060_00	Chun Creek	3.03	R	2	2012	X	X				X	X		X			F			
OK220600030060_10	Chun Creek	15.33	R	2	2012	X	X				X	X			X		F			
OK220600030065_00	Chun Creek, Unnamed Tributary of	1.89	R	3	2012	X	X		X			X			X					
OK220600030080_00	Bull Creek	3.29	R	5a	2012	X	X				N	I		X						
OK220600030080_10	Bull Creek	6.85	R	3	2012	X	X				X	X		X		X				✓
OK220600030090_00	Brown Lake	139	L	3	2016	X	X				X	X		X		X				✓
OK220600040010_00	Gaines Creek	38.22	R	5a	2012	N	F				N	X		I		N				
OK220600040020_00	Boiling Springs Creek	8.04	R	3	2012	X	X				X	X		X						
OK220600040030_00	Beaver Creek	9.11	R	5a	2014	N	F				N	X		N						
OK220600040040_00	Pit Creek	7.65	R	5a	2014	F	N				N	X		X						
OK220600040050_00	Cedar Creek	5.14	R	3	2012	X	X				X	X		X		X				
OK220600040060_00	Buffalo Creek	14.95	R	3	2012	X	X				X	X		X						
OK220600050010_00	Eufaula Lake, Gaines Creek Arm	24,990	L	5a	2012	N	F				N	X		I		I				
OK220600050020_00	Gibson Creek	4.97	R	3	2012	X	X		X			X			X					
OK220600050023_00	Gibson Creek, Unnamed Tributary of	0.62	R	3	2012	X	X		X			X			X					

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OK220600050030_00	Rock Creek	10.18	R	3	2012	X	X				X	X		X						
OK220600050040_00	Ash Creek	12.72	R	3	2012	X	X				X	X		X		X				
OK220600050050_00	Jones Creek	6.49	R	3	2012	X	X				X	X		X						
OK220600050060_00	Mud Creek	6.85	R	4a	2012	X	X				N	I		X						
OK220600050070_00	Buck Creek	4.02	R	3	2012	X	X				X	X		X						
OK220600050080_00	Fish Creek	5.07	R	3	2016	X	X				X	X		X						
OK220600050130_00	Wildhorse Creek	6.18	R	3	2013	X	X				X	X		X						
OK220600050150_00	Wildhorse Creek Tribl	1.38	R	3	2013	X	X				X	X		X						

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OK310800010010_10	Washita River	32.96	R	3	2013	X	X				X	X		X		X				
OK310800010011_00	Texoma Lake, Washita River Arm, Lower	19,214	L	5a	2014	F	N				N	X		I		I				
OK310800010012_00	Rock Creek	8.06	R	3	2013	X	I				X	X		X						
OK310800010020_00	Glasses Creek	10.56	R	2	2013	I	F				I	X		I		I				
OK310800010030_00	Little Galsses Creek	6.27	R	3	2013	X	X				X	X		X						
OK310800010040_00	Carter Lake	108	L	2	2013	F	F				I	X		F						
OK310800010050_00	Texoma Lake, Washita River Arm, Upper	6,925	L	3	2012	X	X				X	X		X		X				
OK310800010051_00	Old Channel (of Washita)	4.62	R	5c	2013	F	N				I	X		X		F				
OK310800010052_00	Kansas Creek	3.85	R	3	2013	X	X				X	X		X						
OK310800010055_00	Old Channel Washita, Unnamed Tributary of	5.85	R	3	2013	X	X		X			X			X		X			
OK310800010060_00	Butcher Pen Creek	6.52	R	3	2013	X	X				X	X		X						
OK310800010070_00	Polecat Creek	3.91	R	3	2013	X	X				X	X		X						
OK310800010080_00	Bell Creek	4.38	R	3	2013	X	X				X	X		X						
OK310800010090_00	Big Sandy Creek	13.57	R	5a	2013	F	F				N	X		N						
OK310800010100_00	Little Sandy Creek	10.22	R	3	2013	X	X				X	X		X						
OK310800010110_00	Buzzard Creek	9.53	R	3	2013	X	X				X	X		X						
OK310800010120_00	Pennington Creek	36.93	R	2	2013	F	F	F				X		F		F		✓		
OK310800010130_00	Cedar Creek	5.27	R	3	2013	X	X				X	X		X						
OK310800010140_00	Reagan Branch	4.05	R	3	2013	X	X				X	X		X						
OK310800010150_00	Keel Creek	2.57	R	3	2013	X	X				X	X		X						
OK310800010160_00	Spring Creek	11.20	R	3	2013	X	X				X	X		X		X				
OK310800010170_00	Rock Creek	17.11	R	3	2013	X	X				X	X		X						

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OK310800010180_00	Sandy Creek	6.19	R	3	2013	X	X				X	X		X						
OK310800010190_00	Mill Creek	37.86	R	5a	2013	I	F				I	X		N		I				
OK310800010200_00	Threemile Creek	4.30	R	3	2013	X	X				X	X		X						
OK310800010205_00	Tributary of Threemile Creek	0.88	R	3	2013	X	X		X			X			X					
OK310800010210_00	Turkey Creek	6.29	R	3	2013	X	X				X	X		X						
OK310800010220_00	Camp Creek	6.87	R	3	2013	X	X				X	X		X						
OK310800010230_00	Sycamore Creek	8.52	R	3	2013	X	X				X	X		X						
OK310800010240_00	Oil Creek	19.47	R	5a	2013	F	F				I	X		N		I				
OK310800010250_00	Bee Branch	4.56	R	3	2013	X	X				X	X		X						
OK310800020010_00	Washita River	31.58	R	5a	2013	I	F				N	N		N		F				
OK310800020010_10	Washita River	16.66	R	3	2013	X	X				X	X		X		X				
OK310800020020_00	Wolf Creek	7.38	R	3	2013	X	X				X	X		X						
OK310800020040_00	Sand Branch	6.24	R	4a	2013	F	F				N	X		I						
OK310800020050_00	Big Branch	12.43	R	3	2013	X	X				X	X		X						
OK310800020060_00	Cool Creek	9.56	R	3	2013	X	X				X	X		X						
OK310800020070_00	Board Hollow Creek	4.75	R	3	2013	X	X				X	X		X						
OK310800020080_00	Rock Creek	4.45	R	3	2013	X	X				X	X		X		X				✓
OK310800020090_00	Rock Creek	4.58	R	2	2013	X	X				F	X		X		X				✓
OK310800020100_00	Arbuckle Lake (Lake of the Arbuckles)	2,350	L	5a	2014	F	F				N	X		F		F				✓
OK310800020120_00	Veterans Lake	64	L	3	2016	X	X				X	X		X						
OK310800020121_00	Travertine Creek	2.57	R	2	2013	X	X				F	X		X						
OK310800020122_00	Rock Creek	12.50	R	5a	2013	I	X				N	X		X		X				✓

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OK310800020124_00	Cochran Creek	7.02	R	3	2013	X	X				X	X		X						
OK310800020130_00	Guy Sandy Creek	17.58	R	3	2013	I	I				I	X		X		I		✓		
OK310800020140_00	Falls Creek	6.18	R	3	2013	X	X				X	X		X		X				
OK310800020150_00	Dry Sandy Creek	8.01	R	3	2013	X	X				X	X		X		X				
OK310800020152_00	Dry Sandy Creek, Unnamed Tributary of	1.99	R	3	2013	X	X		X			X			X					
OK310800020160_00	Honey Creek	13.04	R	3	2013	X	X				X	X		X		X		✓		
OK310800020170_00	Lick Creek	5.11	R	3	2013	X	X				X	X		X						
OK310800020180_00	Colbert Creek	12.04	R	3	2013	X	X				X	X		X						
OK310800020190_00	Chigley Sandy Creek	14.31	R	4a	2013	I	F				F	X		N		I				
OK310800020200_00	Chigley Sandy Creek, East Branch	6.67	R	3	2013	X	X				X	X		X		X				
OK310800020210_00	Chigley Sandy Creek, West Branch	5.20	R	3	2013	X	X				X	X		X						
OK310800020220_00	Buckhorn Creek	8.54	R	2	2013	X	X				F	X		X						
OK310800030010_00	Caddo Creek	44.08	R	4a	2013	I	F				F	X		N		I				
OK310800030010_06	Caddo Creek	16.82	R	5c	2013	I	N				I	X		X		I				
OK310800030020_00	Sand Creek	7.91	R	3	2013	X	X				I	X		X						
OK310800030030_00	Deadman Branch	6.01	R	3	2013	X	X				X	X		X						
OK310800030035_00	Caddo CreekTributary	2.40	R	3	2013				X						X					
OK310800030040_00	Bullhead Creek	5.24	R	3	2013	X	X				X	X		X						
OK310800030050_00	Buzzard Creek	9.05	R	3	2013	X	X				X	X		X						
OK310800030060_00	Caddo Creek, Unnamed Trib of	3.03	R	3	2018	X	X				X	X		X						
OK310800030070_00	Ardmore City Lake (City)	142	L	2	2014	F	F				I	X		F						
OK310800030090_00	Ardmore Lake	122	L	3	2014	X	X				X	X		X						

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OK310800030100_00	Rock Creek	1.31	R	3	2013	X	X				X	X		X		X				✓
OK310800030110_00	Rock Creek	3.42	R	3	2013	X	X				X	X		X		X				✓
OK310800030120_00	Site # 18 Lake (Rock Creek)	248	L	2	2016	F	F				I	X		F		F				✓
OK310800030130_00	Philips Creek	8.86	R	3	2013	X	X				X	X		X						
OK310800030140_00	Jean Neustadt Lake	462	L	2	2014	F	F				I	X		F		F				
OK310800030150_00	Grindstone Creek	6.32	R	3	2013	X	X				X	X		X						
OK310800030160_00	Sullivan Creek	8.11	R	3	2013	X	X				X	X		X						
OK310800030170_00	Henry House Creek	15.73	R	3	2013	X	X				X	X		X						
OK310800030180_00	Red Branch	4.95	R	3	2013	X	X				X	X		X						
OK310800030190_00	Hickory Creek	7.98	R	3	2013	X	X				X	X		X		X				
OK310800030200_00	Mountain Lake	210	L	3	2016	X	X				X	X		X		X				✓
OK310800030210_00	Hickory Creek	4.70	R	3	2013	X	X				X	X		X		X				✓
OK310800030220_00	Spring Creek	9.89	R	3	2013	X	X				X	X		X						
OK310800030230_00	Spring Creek, West	9.34	R	3	2013	X	X				X	X		X						
OK310800030240_00	Hug-me-Tight Branch	6.15	R	3	2013	X	X				X	X		X						
OK310800030250_00	Bear Creek	10.44	R	3	2013	I	I				I	X		X						
OK310800030260_00	Russell Pretty Branch	5.17	R	5c	2013	I	N				I	X		X						
OK310800030265_00	Briar Branch	3.88	R	5c	2013	I	N				I	X		X						
OK310800030270_00	Flag Branch	5.70	R	2	2013	I	F				I	X		X						
OK310800030280_00	Pruitt Branch	4.97	R	5c	2013	I	N				I	X		X						
OK310800030285_00	Pruitt West Creek!	3.94	R	5c	2012	I	N				I	X		X		X				
OK310800030290_00	Russell Pretty Branch, Trib A!	1.00	R	5c	2013	I	N				I	X		X						

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OK310800030300_00	Tar Branch	6.41	R	2	2013	I	F				I	X		X						
OK310800030310_00	Caddo Creek Graham Branch!	3.31	R	3	2013	I	I				I	X		X						
OK310800030320_00	Caddo Creek Graham Branch! Trib.!	0.99	R	3	2013	X	X				X	X		X						
OK310800030330_00	Caddo Creek, Clemscott Branch!	3.04	R	5c	2013	I	N				I	X		X						
OK310800030340_00	Briar Branch Trib.B!	1.16	R	5c	2013	I	N				I	X		X						
OK310800030350_00	Briar Branch Trib.A!	1.42	R	5c	2013	I	N				I	X		X						
OK310800030360_00	Caddo Creek, Fox Branch!	3.11	R	5c	2013	I	N				I	X		X						
OK310800030370_00	Caddo Creek Trib.!	3.34	R	5c	2013	I	N				I	X		X						
OK310800030380_00	Caddo Creek, North Branch	3.80	R	5c	2013	I	N				I	X		X						
OK310800030390_00	Caddo Creek North Branch Trib!	1.46	R	5c	2013	I	N				I	X		X						
OK310800030400_00	Caddo Creek North Fork!	2.90	R	3	2013	I	I				I	X		X						
OK310800030410_00	Caddo Creek North Fork Trib!	1.08	R	5c	2013	I	N				I	X		X						
OK310810010010_00	Washita River	21.08	R	3	2013	X	I				I	X		X		I				
OK310810010010_10	Washita River	32.87	R	5a	2013	I	F				N	N		N		I				
OK310810010020_00	Wildhorse Creek	8.97	R	5a	2013	I	F				F	X		N		I				
OK310810010030_00	Whiskey Creek	3.90	R	3	2013	I	I				I	X		X						
OK310810010040_00	Garrison Creek	9.19	R	3	2013	X	X				X	X		X						
OK310810010050_00	Kickapoo Sandy Creek	10.19	R	4a	2013	I	F				F	X		N		I				
OK310810010060_00	Turkey Sandy Creek	7.05	R	3	2013	X	X				X	X		X						
OK310810010062_00	Turkey Sandy Creek, Unnamed Tributary of	3.75	R	3	2013	X	X				X	X		X						
OK310810010065_00	West Sandy Creek	1.40	R	3	2013	X	X				X	X		X						
OK310810010065_10	West Sandy Creek	5.97	R	3	2013	X	X		X			X			X					

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OK310810010070_00	Red Branch	7.07	R	3	2013	I	I				I	X			X					
OK310810010080_00	Negro Sandy Creek	7.46	R	3	2013	I	I				I	X		X						
OK310810010090_00	Rush Creek	3.79	R	2	2013	I	F		I			X			X					
OK310810010090_10	Rush Creek	10.30	R	5a	2013	I	F				F	X		N						
OK310810010100_00	Cherokee Sandy Creek	16.34	R	3	2013	I	I				I	X		X		I				
OK310810010110_00	Wolf Creek	4.72	R	2	2013	I	F				I	X		X						
OK310810010120_00	Peavine Creek	3.81	R	3	2013	I	I				I	X		X		I				
OK310810010130_00	Peavine Creek, East	9.71	R	3	2013	X	X				X	X		X						
OK310810010150_00	Byars Lake	75	L	3	2016	X	X				X	X		X						
OK310810010160_00	Little Peavine Creek	6.83	R	3	2013	X	X				X	X		X						
OK310810010170_00	Washington Creek	0.62	R	3	2013	X	X				X	X		X		X				
OK310810010180_00	Pauls Valley Lake	750	L	5a	2012	N	F				N	X		F		F				✓
OK310810010185_00	Keel Sandy Creek	6.49	R	3	2018	X	X				X	X		X						
OK310810010186_00	RC Longmire Lake	918	L	2	2012	F	F				I	X		F						
OK310810010190_00	Washington Creek	6.49	R	5a	2013	F	F				N	X		N		I				✓
OK310810010200_00	Owl Creek	9.89	R	3	2013	X	X				X	X		X						
OK310810010205_00	Cheek Creek	5.04	R	3	2013	X	X				X	X		X						
OK310810010210_00	Gaddis Creek	8.05	R	3	2013	X	X				X	X		X						
OK310810010220_00	Maysville Lake (Wiley Post)	302	L	5a	2016	N	F				N	X		F		F				
OK310810010230_00	Beef Creek	6.88	R	2	2013	X	X		X			X			X		F			
OK310810010232_00	Beef Creek, Unnamed Trib of	4.04	R	2	2013	X	X		X						X		F			
OK310810010240_00	Brady creek	13.05	R	3	2013	I	I				I	X		X						

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OK310810010250_00	Gentle Horse Creek!	1.11	R	3	2013	X	X				I	X		X						
OK310810010260_00	Meandering Creek!	4.31	R	3	2013	X	X				X	X		X						
OK310810010270_00	Rush Creek, Trib G!	4.03	R	5c	2013	I	N				I	X		X						
OK310810010280_00	Washita River Trib 14-1N-1E!	1.71	R	5c	2013	X	N				X	X		X						
OK310810010290_00	Washington Creek, Unnamed Trib of	6.15	R	3	2013	X	X				X	X		X		X				✓
OK310810020010_00	Washita River	63.16	R	5a	2013	I	N				N	N		N		I				
OK310810020020_00	Finn Creek	14.15	R	5a	2013	F	F				N	X		N		I				
OK310810020030_00	Turkey Creek	8.46	R	3	2013	X	X				X	X		X						
OK310810020040_00	Second Creek	6.25	R	3	2013	X	X				X	X		X						
OK310810020050_00	Criner Creek	11.76	R	2	2013	F	F				I	X		X		F				
OK310810020060_00	Wolf Creek	4.00	R	3	2013	X	X				X	X		X						
OK310810020070_00	Panther Creek	4.59	R	3	2013	I	I				I	X		X						
OK310810020080_00	Wildcat Creek	2.78	R	3	2013	X	X				X	X		X						
OK310810020090_00	Criner Creek, North	5.49	R	3	2013	X	X				X	X		X						
OK310810020100_00	Happy Hollow Creek	6.55	R	2	2013	I	F				I	X		X						
OK310810020110_00	Bear Creek	8.24	R	3	2013	X	X				X	X		X						
OK310810020120_00	Hybarger Creek	6.16	R	3	2013	X	X				X	X		X						
OK310810020130_00	Cavel Creek	5.70	R	3	2013	X	X				X	X		X						
OK310810020140_00	Rounds Creek	7.96	R	3	2013	X	X				X	X		X						
OK310810020150_00	Larimore Creek	6.49	R	3	2013	X	X				X	X		X						
OK310810020155_00	Sandy Creek	8.98	R	3	2013	X	X				X	X		X						
OK310810020160_00	Colbert Creek	8.59	R	3	2013	X	X				X	X		X		X				

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OK310810020170_00	Roaring Creek	18.27	R	4a	2013	F	F				I	X		N		F				
OK310810020180_00	Roaring Creek, East	7.10	R	3	2013	I	I				I	X		X						
OK310810020190_00	Middle Roaring Creek	5.92	R	3	2013	X	X				X	X		X						
OK310810020200_00	Laflin Creek	12.60	R	5a	2013	F	F				N	X		N		F				
OK310810020210_00	Soldier Creek	4.32	R	3	2013	X	X				X	X		X						
OK310810020220_00	Winter Creek	12.44	R	2	2013	I	F				I	X		I		I				
OK310810020230_00	Dry Creek	8.85	R	3	2013	X	X				X	X		X						
OK310810020250_00	Golden Trend Creek	5.74	R	2	2013	F	F				I	X		X						
OK310810020260_00	Stealy Creek!	5.15	R	5a	2013	I	N				I	X		X						
OK310810030010_00	Wildhorse Creek	22.30	R	5a	2013	I	N				F	X		N		I				
OK310810030020_00	Sandy Creek	16.06	R	3	2013	X	X				X	X		X		X				
OK310810030025_00	Squirrel Creek	8.26	R	3	2013	I	I				I	X		X						
OK310810030030_00	Fivemile Creek	7.16	R	3	2013	I	I				I	X		X						
OK310810030040_00	Rock Creek	9.29	R	3	2013	X	X				X	X		X		X				
OK310810030060_00	Elmore City Lake	69	L	3	2016	X	X				X	X		X		X				
OK310810030070_00	Eightmile Creek	10.46	R	3	2013	I	I				I	X		X						
OK310810030080_00	Salt Creek	19.05	R	5a	2013	I	N				F	X		N		I				
OK310810030084_00	Honey Creek	6.86	R	2	2013	I	F				I	X		X						
OK310810030090_00	Wildcat Creek	5.56	R	3	2013	X	X				X	X		X						
OK310810030100_00	Massey Creek	7.40	R	3	2013	X	X				X	X		X						
OK310810030110_00	Flat Creek	5.64	R	2	2013	I	F				I	X		X						
OK310810030120_00	Sandy Bear Creek	10.37	R	2	2013	I	F				I	X		X						

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OK310810030130_00	Countyline Creek	4.44	R	5c	2016	I	N				I	X		X						
OK310810030135_00	Pernell School Creek!	2.06	R	2	2013	I	F				I	X		X						
OK310810030140_00	N. Pernell Creek, North	3.34	R	5c	2013	I	N				I	X		X						
OK310810030145_00	Pernell Creek!	2.96	R	5c	2013	I	N				I	X		X						
OK310810030150_00	Salt Creek, Eola Branch	3.75	R	2	2013	I	F				I	X		X						
OK310810030160_00	Pernell Creek, Trib.B!	0.77	R	5c	2013	I	N				I	X		X						
OK310810030170_00	Pernell Creek, Trib. A!	1.11	R	3	2013	I	I				I	X		X						
OK310810030180_00	Sandy Bear Creek, West Fork!	5.46	R	5c	2013	I	N				I	X		X						
OK310810030190_00	Flat Creek Trib.!	2.33	R	3	2018	I	I				I	X		X						
OK310810030200_00	South Tatums!	1.57	R	5c	2013	I	N				I	X		X						
OK310810030210_00	Ratliff East Creek!	4.42	R	5c	2013	I	N				I	X		X						
OK310810030220_00	Ratliff East Creek! Trib!	2.21	R	2	2013	I	F				I	X		X						
OK310810030230_00	Ratliff West Creek!	3.73	R	3	2013	X	X				X	X		X						
OK310810030240_00	Ratliff West Creek! Trib.!	0.98	R	5c	2013	I	N				I	X		X						
OK310810030250_00	Countyline Creek Trib.3!	1.15	R	5c	2013	I	N				I	X		X						
OK310810030260_00	Wildhorse Creek Trib.B!	3.30	R	5c	2013	I	N				I	X		X						
OK310810030270_00	Wildhorse Creek Trib. A!	2.09	R	5c	2013	I	N				I	X		X						
OK310810040010_00	Wildhorse Creek	19.12	R	2	2013	I	F				I	X		X		I				
OK310810040015_00	West County Line Creek	3.28	R	5c	2013	I	N				I	X		X						
OK310810040020_00	Panther Creek	5.36	R	5c	2013	I	N				I	X		X						
OK310810040030_00	Black Bear Creek	12.30	R	2	2013	I	F				I	X		X		I				
OK310810040040_00	Black Bear Creek	5.82	R	3	2013	X	X				X	X		X		X				✓

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OK310810040050_00	Fuqua Lake	1,500	L	5a	2014	F	F				N	X		F		F				✓
OK310810040060_00	Bluff Creek	9.19	R	2	2013	I	F				I	X		X						
OK310810040070_00	Fitzpatrick Creek	1.05	R	3	2013	X	X				X	X		X		X				✓
OK310810040080_00	Duncan Lake	500	L	2	2016	F	F				F	X		F		F				✓
OK310810040090_00	Fitzpatrick Creek	5.03	R	3	2013	X	X				X	X		X		X				✓
OK310810040100_00	Dry Creek	7.90	R	3	2013	I	I				I	X		X						
OK310810040110_00	Clear Creek	3.13	R	3	2013	X	X				X	X		X		X				
OK310810040120_00	Clear Creek Lake (Chisholm)	722	L	5a	2016	F	N				F	X		F		F				✓
OK310810040130_00	Clear Creek	6.08	R	3	2013	X	X				X	X		X		X				✓
OK310810040140_00	Wildhorse Creek	11.13	R	4a	2013	I	F				F	X		N		I				✓
OK310810040150_00	Humphreys Lake	882	L	5a	2012	F	F				I	X		F		N				✓
OK310810040160_00	McCubbin Creek	6.00	R	3	2013	X	X				X	X		X		X				✓
OK310810040170_00	Owens Creek	5.23	R	5a	2013	I	F				N	X		X						
OK310810040180_00	West County Line Creek Trib.!	2.53	R	5c	2013	I	N				I	X		X						
OK310810040190_00	Panther Creek E. Alma Branch!	2.42	R	3	2013	I	I				I	X		X						
OK310810040200_00	Black Bear Trib 10!	2.65	R	5c	2013	I	N				I	X		X						
OK310810040210_00	Black Bear Trib 27-1N-4W!	2.06	R	3	2013	I	I				I	X		X						
OK310810040220_00	Black Bear Trib 6 1N-4W	2.21	R	3	2013	I	I				I	X		X						
OK310810040230_00	Northwest Alma Creek	1.87	R	5c	2013	I	N				I	X		X						
OK310810040240_00	Velma East Creek!	3.96	R	5b	2018	I	N				I	X		X						
OK310810040250_00	Velma Creek!	2.42	R	5b	2018	I	N				I	X		X						
OK310810040260_00	Velma Creek West Branch!	1.25	R	5b	2013	I	N				I	X		X						

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OK310810040270_00	Passmore Cemetery Creek!	3.75	R	3	2013	I	I				I	X		X						
OK310810040280_00	Passmore Cemetery Creek Trib B!	2.03	R	5c	2018	I	N				I	X		X						
OK310810040290_00	Wildhorse Creek Trib 10-1S-5W!	4.15	R	5c	2018	I	N				I	X		X						
OK310810040300_00	Wildhorse Creek Trib 31-1N-5W!	1.29	R	3	2013	I	I				I	X		X						
OK310810050010_00	Rush Creek	58.40	R	2	2013	F	F				I	X		X						
OK310810050020_00	Panther Creek	4.89	R	2	2013	I	F				I	X		X						
OK310810050030_00	Coon Creek	3.86	R	3	2013	I	I				I	X		X						
OK310810050040_00	Murray Creek	6.66	R	3	2018	I	I				I	X		X						
OK310810050050_00	Fourmile Creek	4.66	R	3	2013	I	I				I	X		X						
OK310810050060_00	Taylor Lake (Marlow City)	227	L	5a	2012	I	F				N	X		F		F				
OK310810050080_00	Rush Creek, Trib A!	3.35	R	3	2013	I	I				I	X		X						
OK310810050090_00	Rush Creek, Trib B!	3.41	R	3	2013	I	I				I	X		X						
OK310810050100_00	Rush Creek, Trib C!	1.51	R	3	2013	I	I				I	X		X						
OK310810050110_00	Rush Creek, Trib D!	0.71	R	3	2018	I	I				I	X		X						
OK310810050120_00	Rush Creek, Trib E!	3.40	R	5c	2013	I	N				I	X		X						
OK310810050130_00	Cox City!	3.21	R	5c	2013	I	N				I	X		X						
OK310810050140_00	West Cox City!	1.50	R	5c	2013	I	N				I	X		X						
OK310810050160_00	Rush Creek, Trib F!	1.91	R	3	2013	I	I				I	X		X						
OK310820010010_00	Washita River	10.80	R	3	2013	X	X				I	I		X		I				
OK310820010010_10	Washita River	40.49	R	3	2013	I	I				I	I		X		I				
OK310820010030_00	Bitter Creek	6.02	R	4a	2013	F	F				I	X		N		I				
OK310820010040_00	Bitter Creek, East	10.74	R	3	2013	I	I				I	X		X		X				

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OK310820010050_00	Spring Creek	6.33	R	3	2013	X	X				X	X		X						
OK310820010060_00	Bitter Creek, West	20.96	R	3	2013	I	I				I	X		X		X				
OK310820010070_00	Brushy Creek	11.81	R	3	2013	X	X				X	X		X						
OK310820010090_00	Shannon Springs Lake	40	L	3	2016	X	X				X	X		X						
OK310820010100_00	Line Creek	9.54	R	3	2013	I	I				I	X		X						
OK310820010110_00	Rock Hollow Creek	10.77	R	3	2013	X	X				X	X		X						
OK310820010120_00	Tony Hollow Creek	7.33	R	3	2013	X	X				X	X		X						
OK310820010130_00	Otter Creek	5.22	R	3	2013	X	X				X	X		X						
OK310820010140_00	Salt Creek	18.52	R	2	2013	I	I				F	X		X						
OK310820010150_00	Salt Creek, West Fork	12.47	R	3	2013	X	X				X	X		X						
OK310820010160_00	Ionine Creek	6.45	R	5a	2013	I	N				F	X		N		I				
OK310820010170_00	Jack Hollow Creek	4.87	R	5b	2013	I	N				I	X		X		I				
OK310820010180_00	Jack Hollow Creek, East	6.43	R	3	2013	X	X				X	X		X						
OK310820010190_00	Jack Hollow Creek, West	6.91	R	3	2013	X	X				X	X		X						
OK310820010200_00	Ionine Creek, East	5.81	R	3	2013	I	X				I	X		X						
OK310820010210_00	Ionine Creek, West	8.56	R	3	2013	I	X				I	X		X						
OK310820010220_00	County Line Creek	3.05	R	3	2013	X	X				X	X		X						
OK310820010230_00	Jack Hollow Creek, Trib A!	3.13	R	3	2013	I	I				I	X		X						
OK310820020010_00	Little Washita River	36.98	R	4a	2013	F	F				I	X		N		F				
OK310820020012_00	Patrick's Trib	1.49	R	3	2013	I	I				I	X		X						
OK310820020014_00	Erica's trib	4.39	R	3	2013	I	I				I	X		X						
OK310820020016_00	Alejandra's Trib	2.07	R	3	2013	I	I				I	X		X						

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OK310820020020_00	Rock Creek	5.48	R	3	2013	I	I				I	X		X						
OK310820020030_00	Hog Creek	3.84	R	3	2013	X	X				X	X		X						
OK310820020040_00	Latheran Creek	6.70	R	3	2013	X	X				X	X		X						
OK310820020050_00	Bills Creek	1.90	R	3	2013	X	X				X	X		X						
OK310820020060_00	Bills Creek, East	7.27	R	2	2013	I	F				I	X		X						
OK310820020070_00	Louis Burtshi Lake	180	L	2	2014	F	F				F	X		F						
OK310820020080_00	Bills Creek, West	6.54	R	5a	2013	I	N				I	X		X						
OK310820020090_00	Little Rush Creek	5.40	R	2	2013	F	I				F	X		X						
OK310820020100_00	Charlie Creek	6.08	R	3	2013	I	I				I	X		X						
OK310820020110_00	McCarty Creek	8.49	R	5b	2018	F	N				I	X		X						
OK310820020120_00	Chetonia Creek	5.39	R	3	2013	I	I				I	X		X						
OK310820020140_00	Allen's Lake	10	L	5c	2016	X	N				X	X		X						
OK310820020150_00	Gladys Creek	2.08	R	3	2013	X	X		X			X			X					
OK310820020150_10	Gladys Creek	2.41	R	3	2013	X	X				X	X		X		X				
OK310830010010_00	Washita River	20.68	R	5a	2013	I	F				N	F		N		F				
OK310830010010_10	Washita River	43.32	R	3	2013	X	I				I	I		X		I				
OK310830010030_00	Delaware Creek	11.68	R	5c	2013	I	N				F	X			F					
OK310830010050_00	Tonkawa Creek	13.71	R	3	2013	I	I				I	X		X						
OK310830010060_00	Hog Creek	7.93	R	3	2013	I	I				I	X		X						
OK310830010070_00	Leaper Creek	2.92	R	3	2013	X	X				X	X		X						
OK310830010080_00	Public Service #3 Lake	575	L	3	2016	X	X				X	X		X						
OK310830010090_00	Deep Creek	7.48	R	3	2013	X	X				X	X		X						

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OK310830010100_00	Two Hatchet Creek	4.80	R	3	2013	X	X				X	X		X						
OK310830010101_00	Dry Creek (Fast Runner)	7.32	R	3	2013	X	X				X	X		X						
OK310830010120_00	Punjo Creek	5.21	R	3	2013	X	X				X	X		X						
OK310830010130_00	Spring Creek	8.32	R	3	2013	X	X				X	X		X						
OK310830010140_00	Gokey Creek	10.61	R	3	2013	I	I				I	X		X						
OK310830010150_00	Cedar Creek	6.44	R	3	2013	X	X				X	X		X						
OK310830010160_00	Cedar Creek	10.56	R	3	2013	I	I				I	X		X						
OK310830020010_00	Washita River	29.70	R	2	2013	I	F				I	F		X		F				
OK310830020020_00	Stinking Creek	18.36	R	5a	2013	F	N				I	X		N		I				
OK310830020030_00	Saddle Mountain Creek	21.19	R	3	2013	I	I				I	X		X						
OK310830020040_00	Pecan Creek	14.53	R	3	2013	X	X				X	X		X						
OK310830020050_00	Cottonwood Creek	4.35	R	3	2013	X	X				X	X		X						
OK310830020055_00	Who Dat	1.63	R	3	2013	X	X				X	X		X						
OK310830020060_00	Rainy Mountain Creek	2.18	R	3	2013	I	I				I	X		X						
OK310830020060_10	Rainy Mountain Creek	32.33	R	5a	2013	F	N				N	X			I					
OK310830020070_00	Sugar Creek	19.43	R	3	2013	X	X				X	X		X						
OK310830020080_00	Longhorn Creek	10.95	R	3	2013	X	X				X	X		X						
OK310830020090_00	Oak Creek	11.93	R	3	2013	I	I				I	X		X		X				
OK310830020100_00	Gyp Creek	6.29	R	3	2013	X	X				X	X		X						
OK310830020110_00	Vanderwork Lake	135	L	2	2016	I	F				I	X		F						
OK310830020120_00	Spring Creek	7.44	R	3	2013	X	X				X	X		X						
OK310830030010_00	Washita River	49.32	R	5a	2013	F	F				N	F		N		F				

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OK310830030010_10	Washita River	33.45	R	2	2013	X	F				I	I		X		I				
OK310830030020_00	Gyp Creek	8.66	R	3	2013	X	X				X	X		X						
OK310830030030_00	Friendship Creek	6.60	R	3	2013	X	X				X	X		X						
OK310830030050_00	Cloud Chief Lake	80	L	3	2016	X	X				X	X		X						
OK310830030060_00	Two Baby Creek	9.85	R	3	2013	X	X				X	X		X						
OK310830030070_00	Cavalry Creek	20.30	R	5a	2013	F	N				F	X		N		I				
OK310830030080_00	Cavalry Creek, South Fork	14.10	R	3	2013	I	I				I	X		X						
OK310830030090_00	Cavalry Creek, North	9.85	R	2	2013	X	X		X			X			X		F			
OK310830030095_00	Cavalry Creek, Unnamed Tributary of North	6.84	R	2	2013	X	X		X			X			X		F			
OK310830030100_00	Boggy Creek	24.89	R	4a	2013	F	F				F	X		N						
OK310830030110_00	Boggy Creek, South	7.24	R	3	2013	X	X				X	X		X						
OK310830030120_00	Boggy Creek, West	4.73	R	3	2013	X	X				X	X		X						
OK310830030130_00	Adams Lake	150	L	3	2016	X	X				X	X		X						
OK310830030140_00	Corn Creek	9.69	R	3	2013	I	I				I	X		X						
OK310830030150_00	Coffee Creek	11.94	R	3	2013	X	X				X	X		X						
OK310830030160_00	Gyp Creek	11.14	R	3	2013	I	I				I	X		X						
OK310830030170_00	Bear Creek	17.68	R	3	2013	X	X				X	X		X						
OK310830030180_00	Turtle Creek	15.24	R	3	2013	X	X				X	X		X						
OK310830030190_00	Beaver Creek	22.54	R	5a	2013	F	N				F	X			I					
OK310830030200_00	Barnitz Creek	8.87	R	5a	2013	F	N				N	X		N		I				
OK310830030210_00	Barnitz Creek, East	26.48	R	5a	2013	I	N				F	X		N		X				
OK310830030220_00	Dry Creek	15.44	R	3	2013	X	X				X	X		X						

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OK310830030230_00	Barnitz Creek, West	38.35	R	5a	2013	F	N				N	X		N		I				
OK310830030240_00	Leedey Lake	80	L	3	2016	X	X				X	X		X						
OK310830030250_00	Sand Creek	6.01	R	3	2013	X	X				X	X		X						
OK310830030260_00	Turkey Creek	12.78	R	3	2013	I	I				I	X		X						
OK310830030270_00	Turkey Creek	5.79	R	3	2013	X	X				X	X		X						
OK310830030280_00	Clinton Lake	335	L	5a	2014	N	F				N	X		I		N				✓
OK310830030290_00	Monument Creek	3.78	R	3	2013	X	X				X	X		X						
OK310830030300_00	Comet Creek	8.52	R	3	2013	X	X				X	X		X						
OK310830030310_00	Oak Creek	22.15	R	3	2013	I	I				I	X		X		X				
OK310830040010_00	Spring Creek	16.76	R	5a	2013	I	N				F	X		N		I				
OK310830040020_00	Chickasha Lake	820	L	2	2014	I	F				I	X		F		F				
OK310830040030_00	Stinking Creek	11.33	R	5a	2013	F	N				N	X		N		I				
OK310830050010_00	Sugar Creek	32.40	R	5a	2013	I	N				N	X			I					
OK310830050020_00	Camp Creek	3.13	R	3	2013	X	X				X	X		X						
OK310830050030_00	Yellow Creek	4.69	R	3	2013	X	X				X	X		X						
OK310830050040_00	White Bread Creek	9.52	R	3	2013	X	X				X	X		X						
OK310830050050_00	Keechi Creek	8.01	R	3	2013	X	X				X	X		X						
OK310830050060_00	Wildcat Creek	8.38	R	3	2013	X	X				X	X		X						
OK310830050070_00	Medicine Creek	7.40	R	3	2013	X	X				X	X		X						
OK310830050080_00	Kickapoo Creek	7.65	R	3	2013	X	X				X	X		X						
OK310830050090_00	Devil's Canyon Creek	7.67	R	3	2013	X	X				X	X		X						
OK310830050100_00	Red Rock Canyon Creek	5.43	R	3	2013	X	X				X	X		X						

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OK310830050110_00	Zobisch Lake Creek	2.35	R	3	2013	X	X				X	X		X						
OK310830050120_00	Zobisch Lake	9	L	3	2016	X	X				X	X		X						
OK310830060010_00	Cobb Creek	8.13	R	3	2013	X	X				I	X		X		X				✓
OK310830060020_00	Fort Cobb Lake	4,100	L	4a	2014	N	F				I	X		F		N				✓
OK310830060030_00	Willow Creek	9.24	R	4a	2013	F	F				I	X		N		F				✓
OK310830060040_00	Lake Creek	16.27	R	2	2013	F	F				I	X		X		I				✓
OK310830060050_00	Cobb Creek	17.34	R	4a	2013	F	F				F	X		N		I				✓
OK310830060060_00	Camp Creek	4.42	R	3	2013	X	X				X	X		X		X				✓
OK310830060070_00	Crooked Creek	6.05	R	3	2013	X	X				X	X		X		X				✓
OK310830060080_00	Fivemile Creek	12.22	R	4a	2013	F	F				F	X		N		I				✓
OK310830060090_00	Buck Creek	6.59	R	3	2013	X	X				X	X		X		X				✓
OK310830060100_00	Spring Creek	7.00	R	3	2013	X	X				X	X		X		X				✓
OK310830060110_00	Bull Creek	4.29	R	3	2013	X	X				X	X		X		X				✓
OK310830060120_00	Cobb Creek	7.32	R	3	2013	X	X				X	X		X		X				✓
OK310830060130_00	Crowder Lake	158	L	5a	2014	I	F				N	X		F		N				✓
OK310830060140_00	Possum Hollow Creek	4.05	R	3	2013	X	X				X	X		X		X				✓
OK310840010010_00	Washita River	18.62	R	5a	2013	F	F				N	N		N		F				
OK310840010020_00	Foss Lake	8,800	L	2	2013	F	F				I	X		I		I				
OK310840010030_00	Soldier Creek	6.47	R	3	2013	X	X				X	X		X						
OK310840010040_00	Little Panther Creek	9.20	R	3	2013	I	I				I	X		X						
OK310840010050_00	Panther Creek	10.94	R	3	2013	I	I				I	X		X		X				
OK310840010060_00	Quartermaster Creek	32.98	R	5a	2013	I	N				N	X		N		I				

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OK310840010070_00	Wild Horse Creek	10.88	R	3	2013	X	X				I	X		X						
OK310840010080_00	North Branch	18.97	R	3	2013	X	X		X			X			X					
OK310840010090_00	Dry Branch	5.45	R	3	2013	X	X				X	X		X						
OK310840010100_00	Hay Creek	13.42	R	3	2013	X	X				X	X		X		X				
OK310840010110_00	Cyclone Creek	6.47	R	3	2013	X	X				X	X		X						
OK310840010120_00	White Shield Creek	18.19	R	3	2013	I	X		I			X			X					
OK310840010130_00	Ninemile Creek	18.05	R	3	2013	I	I				I	X		X						
OK310840010140_00	Big Kiowa Creek	14.93	R	3	2013	X	X				X	X		X						
OK310840020010_00	Washita River	61.94	R	4a	2013	F	F				N	X		I		I				
OK310840020020_00	Sandstone Creek	14.59	R	5a	2013	F	N				F	X		N		I				
OK310840020040_00	Sandstone Creek, East Fork	9.57	R	3	2013	X	X				X	X		X						
OK310840020050_00	Currant Creek	8.04	R	3	2013	X	X				X	X		X						
OK310840020060_00	Taylor Lake	100	L	3	2016	X	X				X	X		X						
OK310840020070_00	Sandstone Creek	8.43	R	2	2013	I	X				F	X		X		X				
OK310840020080_00	Baker Lake	118	L	3	2016	X	X				X	X		X						
OK310840020090_00	Marshall Lake	80	L	3	2016	X	X				X	X		X						
OK310840020100_00	Beaverdam Creek	8.61	R	3	2013	X	X				X	X		X						
OK310840020110_00	Wild Horse Creek	11.28	R	3	2013	X	X				X	X		X						
OK310840020120_00	Dead Indian Creek	15.65	R	3	2013	X	X				X	X		X		X				
OK310840020130_00	Dead Indian Lake	79	L	3	2016	X	X				X	X		X						
OK310840020140_00	Sergeant Major Creek	11.55	R	3	2013	I	I		X			X			X	I				
OK310840020150_00	Dry Creek	5.33	R	3	2013	X	X				X	X		X						

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OK310840020160_00	Sergeant Major Creek, East Fork	5.70	R	2	2013	F	F				X	X		X						
OK310840020170_00	Plum Creek	4.11	R	3	2013	X	X				X	X		X						
OK310840020180_00	Brokenleg Creek	8.00	R	3	2013	X	X				X	X		X						
OK310840020190_00	Croton Creek	16.14	R	3	2013	X	X				X	X		X		X				
OK310840020200_00	Croton Creek, East	7.30	R	3	2013	X	X				X	X		X						
OK310840020210_00	Rush Creek	16.33	R	3	2013	I	I				I	X		X		X				
OK310840020220_00	Croton Creek, Unnamed Trib of	3.91	R	3	2013	X	X				X	X		X						
OK310840020230_00	Skipout Lake (S-53)	47	L	3	2016	X	X				X	X		X						
OK310840020240_00	Spring Creek	5.90	R	5a	2013	I	F				N	X		N						
OK310840020250_00	Spring Creek Lake (S-42)	40	L	3	2016	X	X				X	X		X						
OK310840020260_00	Turkey Creek	8.14	R	3	2013	X	X				X	X		X						
OK310840020270_00	Trunk Creek	5.25	R	3	2013	X	X				X	X		X						
OK311100010020_00	Texoma Lake	15,743	L	5a	2012	F	F				N	X		I		I				
OK311100010030_00	Texoma Lake, Red River Arm, Lower	31,081	L	2	2014	F	F				I	X		I		I				
OK311100010040_00	McLaughlin Creek	2.37	R	3	2013	X	X				X	X		X						
OK311100010050_00	Caney Creek	5.28	R	3	2013	X	X				X	X		X						
OK311100010060_00	Happy Hollow Creek	2.05	R	3	2013	X	X				X	X		X						
OK311100010070_00	Buncombe Creek	9.90	R	3	2013	X	X				X	X		X						
OK311100010080_00	Texoma Lake, Red River Arm, Upper	11,466	L	5a	2012	I	F				N	X		I		I				
OK311100010090_00	Brier Creek	12.08	R	3	2013	X	X				X	X		X						
OK311100010100_00	House Creek	7.07	R	3	2013	X	X				X	X		X						
OK311100010110_00	Havani Creek	1.25	R	3	2013	X	X				X	X		X						

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OK311100010120_00	Little Hauani Creek	12.26	R	3	2013	X	X				X	X		X						
OK311100010130_00	Hauani Creek	10.03	R	3	2013	X	X				X	X		X		X				
OK311100010140_00	Hauani Lake	300	L	3	2016	X	X				X	X		X		X				
OK311100010150_00	Wilson Creek	12.68	R	3	2013	X	X				X	X		X						
OK311100010170_00	Pumpkin Creek	7.01	R	3	2013	X	X				X	X		X						
OK311100010180_00	Oil Creek	8.40	R	3	2013	X	X				X	X		X						
OK311100010190_00	Red River	47.84	R	2	2013	I	F				I	F		I		F				
OK311100010190_10	Red River	31.99	R	3	2013	X	X				X	X		X		X				
OK311100010190_20	Red River	46.43	R	5a	2013	I	N				N	N		N		N				
OK311100010190_30	Red River	10.36	R	3	2013	X	X				X	X		X		X				
OK311100010200_00	Corcoran Creek	11.75	R	3	2013	I	I				I	X		X						
OK311100010210_00	Leeper Lake	150	L	3	2016	X	X				X	X		X						
OK311100010220_00	Clouds Branch	9.02	R	3	2013	X	X				X	X		X						
OK311100010230_00	Bills Creek	8.43	R	5a	2013	I	X				I	X		N						
OK311100010240_00	Rock Creek	5.82	R	3	2013	X	X				X	X		X						
OK311100010250_00	Walnut Bayou	10.82	R	5a	2013	I	F				F	I		N		I				
OK311100010260_00	Dry Creek	7.23	R	3	2013	X	X				X	X		X						
OK311100010270_00	Coffeepot Creek	6.76	R	3	2013	X	X				X	X		X						
OK311100010290_00	Red Creek	17.42	R	5a	2013	F	F				N	X		N		I				
OK311100010295_00	Cat Creek	5.82	R	3	2013	X	X				X	X		X						
OK311100010300_00	Fleetwood Creek	10.91	R	5a	2013	I	F				N	X		N		I				
OK311100020010_10	Hickory Creek	37.28	R	5a	2013	I	F				F	I		N		I				

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OK311100020020_00	Anadarche Creek	2.28	R	3	2013	X	X				X	X		X		X				
OK311100020050_00	Anadarche Creek, East	3.18	R	3	2013	X	X				X	X		X		X				✓
OK311100020070_00	Fourche Maline Creek	4.56	R	3	2013	X	X				X	X		X		X				✓
OK311100020080_00	Anadarche Creek, West	4.51	R	3	2013	X	X				X	X		X		X				✓
OK311100020090_00	Lake Murray	5,458	L	5a	2012	F	F				N	X		F		F				✓
OK311100020100_00	Little Hickory Creek	9.13	R	3	2013	X	X				X	X		X						
OK311100020110_00	Hickory Creek, South Branch	7.28	R	3	2013	X	X				X	X		X						
OK311100020120_00	Spring Branch	6.10	R	3	2013	X	X				X	X		X						
OK311100030010_00	Walnut Bayou	14.97	R	3	2013	I	I				X	X		I		X				
OK311100030020_00	Simon Creek	19.84	R	2	2013	I	F				I	X		X		I				
OK311100030030_00	Simon Creek, North	5.44	R	3	2013	X	X				X	X		X						
OK311100030032_00	Sparks Branch	4.38	R	3	2013	X	X				X	X		X						
OK311100030040_00	Cherokee Creek	3.62	R	3	2013	X	X				X	X		X						
OK311100030050_00	Polecat Creek	5.32	R	3	2013	I	I				I	X		X						
OK311100030060_00	Bull Creek	7.04	R	3	2013	X	X		X			X			X					
OK311100030070_00	Walnut Creek (Walnut Bayou)	28.38	R	3	2013	I	I				I	X		X		I				
OK311100030080_00	Demijohn Creek	9.82	R	3	2013	X	X				X	X		X						
OK311100030090_00	Cottonwood Creek	11.37	R	3	2013	I	I				I	X		X		I				
OK311100030100_00	Red Oak Creek	4.62	R	3	2013	I	I				I	X		X						
OK311100030110_00	Oil Branch	0.84	R	2	2013	I	F				I	X		X						
OK311100030120_00	Oil Branch	5.01	R	3	2013	X	X				X	X		X						
OK311100030130_00	Healdton Municipal Lake	370	L	5a	2014	N	F				N	X		F		I				

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OK311100030140_00	Whiskey Creek	5.90	R	2	2013	I	F		X			X			X					
OK311100030150_00	Red Branch	3.76	R	3	2013	X	X				X	X		X						
OK311100030160_00	Rexroat Branch!	4.48	R	3	2013	X	I				I	X		X						
OK311100030170_00	Healdton Branch!	2.37	R	3	2013	I	I				I	X		X						
OK311100030180_00	Walnut Creek, Unnamed Tributary of	7.56	R	3	2013	X	X		X			X			X					
OK311100030190_00	Cottonwood Creek, Unnamed Tributary of	4.90	R	3	2013	X	X		X			X			X					
OK311100040010_00	Mud Creek	49.53	R	5a	2013	I	F				N	N		N		I				
OK311100040020_00	Clear Creek	15.91	R	3	2013	I	I				I	X		X		X				
OK311100040030_00	Mud Creek, North	27.87	R	3	2013	I	I		I			X		I		I				
OK311100040035_00	North Mud Creek, Unnamed Tributary of	1.42	R	3	2013	X	X		X			X			X					
OK311100040040_00	Post Oak Creek	11.07	R	3	2013	X	X				X	X		X						
OK311100040045_00	Oak Creek!	3.04	R	5c	2012	I	N				I	X		X						
OK311100040050_00	Long Branch	8.62	R	3	2013	X	X				X	X		X						
OK311100040060_00	Fox Branch	5.31	R	2	2018	F	I				I	X		X						
OK311100040070_00	Cottonwood Creek	7.33	R	2	2013	I	F				I	X		X						
OK311100040080_00	Mud Creek, Lower West	27.81	R	5a	2013	F	F				N	X		N						
OK311100040090_00	Post Oak Creek	7.53	R	5c	2013	I	N				I	X		X						
OK311100040100_00	Negro Creek	14.33	R	3	2013	I	I				I	X		X		I				
OK311100040110_00	Willow Branch	14.33	R	2	2013	I	F				I	X		X		I				
OK311100040120_00	Crooked Creek	9.69	R	3	2013	X	X				X	X		X		X				
OK311100040130_00	Deer Creek	13.63	R	3	2013	I	I				I	X		X		I				
OK311100040140_00	Deer Creek, South Fork	5.28	R	3	2013	I	I				I	X		X						

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OK311100040150_00	Boardtree Creek	5.79	R	3	2018	I	I				I	X		X						
OK311100040155_00	Boardtree Creek, Unnamed Trib of	4.31	R	3	2018	I	I				I	X		X						
OK311100040160_00	Comanche Creek	7.80	R	3	2013	X	X				X	X		X						
OK311100040170_00	Comanche Lake	184	L	5a	2016	F	F				I	X		F						
OK311100040180_00	Mud Creek, East	13.86	R	3	2013	I	I				I	X		X						
OK311100040190_00	Weed Hollow Creek	3.70	R	3	2013	X	X				X	X		X						
OK311100040200_00	Mud Creek, West	14.07	R	3	2013	I	I				I	X		X		I				
OK311100040210_00	Pine Creek	10.96	R	2	2013	I	F				I	X		X						
OK311100040220_00	Mud Creek	17.96	R	3	2013	X	X				X	X		X						
OK311200000010_00	Red River	30.02	R	5a	2013	I	N				N	I		N		N				
OK311200000010_10	Red River	6.58	R	3	2013	X	X				X	X		X		X				
OK311200000013_00	Little Rain	7.20	R	3	2013	X	X				X	X		X						
OK311200000030_00	Beaver Creek	30.69	R	5a	2013	F	F				N	X		N		I				
OK311200000040_00	Hackberry Creek	5.38	R	3	2013	X	X				X	X		X						
OK311200000050_00	Squirrel Creek	7.54	R	3	2013	X	X				X	X		X						
OK311200000060_00	Cow Creek	25.73	R	4a	2013	F	F				F	I		N			F			
OK311200000070_00	Monument Creek	6.17	R	2	2013	I	F				I	X		X						
OK311200000080_00	Dry Creek	20.96	R	5a	2013	F	N				N	X		N		I				
OK311200000090_00	Cotton Creek	8.35	R	3	2013	X	X				X	X		X		X				
OK311200000100_00	Cow Creek, East	12.21	R	2	2013	X	X		X			X			X		F			
OK311200000110_00	Claridy Creek	8.43	R	5a	2013	N					N	X		X			F			
OK311200000120_00	Willow Creek	7.32	R	5a	2013	N	X				N	X		X						

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OK311200000140_00	Jap Beaver Lake	65	L	3	2016	X	X				X	X		X						
OK311200000150_00	Whiskey Creek	20.47	R	3	2013	X	X				X	X		X						
OK311200000160_00	Cow Creek, East, Unnamed Tributary of	3.51	R	3	2013	X	X		X			X			X		X			
OK311210000010_00	Beaver Creek	46.89	R	3	2013	I	I				I	X		X		I				✓
OK311210000020_00	Waurika Lake	10,100	L	5a	2012	F	F				N	X		F		N				✓
OK311210000030_00	Walker Creek	10.02	R	5c	2013	I	N				I	X		X		I				✓
OK311210000040_00	Mills Creek	6.09	R	3	2013	X	X				X	X		X						
OK311210000050_00	Little Beaver Creek	39.49	R	4a	2013	F	F				F	X		N		I				✓
OK311210000060_00	Stage Stand Creek	12.94	R	3	2013	I	I				I	X		X		I				✓
OK311210000070_00	Rock Creek	9.36	R	3	2013	X	X				X	X		X						
OK311210000080_00	Hell Creek	9.88	R	3	2013	I	I				I	X		X		I				✓
OK311210000090_00	Buckhorn Creek	5.62	R	3	2013	X	X				X	X		X						
OK311210000100_00	Gooden Creek	14.47	R	3	2013	X	X				X	X		X						
OK311210000110_00	Dry Beaver Creek	14.26	R	3	2013	I	I				I	X		X						
OK311210000120_00	Armstrong Creek	9.20	R	2	2013	I	X				F	X		X						
OK311210000130_00	Ninemile Beaver Creek	20.49	R	3	2013	I	I				I	X		X		X				
OK311210000140_00	Whisky Creek	10.28	R	4a	2013	F	F				I	X		N						
OK311210000143_00	Whisky Creek, West	5.09	R	3	2013	I	X				X	X		X						
OK311210000150_00	Cottonwood Creek	7.21	R	5a	2013	I	N				I	X		N						
OK311300010010_00	Cache Creek	8.85	R	3	2013	I	I				I	X		X		I				
OK311300010020_00	Cache Creek, East	9.05	R	5a	2013	I	F				N	F		N		I				✓
OK311300010020_10	Cache Creek, East	17.11	R	5a	2013	I	F				N	N		N		I				✓

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OK311300010030_00	Temple Creek	4.25	R	3	2013	X	X				X	X		X						
OK311300010040_00	Mooney Creek	3.20	R	3	2013	X	X				X	X		X		X				✓
OK311300010050_00	Temple Lake (Mooney)	26	L	3	2016	X	X				X	X		X		X				✓
OK311300010060_00	Soldier Creek	9.66	R	3	2013	X	X				X	X		X						
OK311300010070_00	Walters Creek	4.70	R	3	2013	X	X				X	X		X		X				✓
OK311300010080_00	Walters Lake (Boyer)	148	L	5a	2012	N	F				N	X		F		F				✓
OK311300010090_00	Gravel Pits Creek!	4.14	R	3	2013	X	X				X	X		X						
OK311300010100_00	Cache Creek, Unnamed Trib of East	8.57	R	5c	2015	I	N				I	X		X						
OK311300020005_00	Sharon Stream	2.31	R	3	2013	X	X				X	X		X						
OK311300020010_00	Cache Creek, East	27.89	R	3	2013	X	X				X	X		X		X				
OK311300020010_05	Cache Creek, East	15.27	R	3	2013	X	X				X	X		X		X				
OK311300020010_10	Cache Creek, East	17.08	R	5a	2013	F	N				N	X		N		X				
OK311300020020_00	Snake Creek	19.80	R	3	2013	I	I				I	X		X						
OK311300020030_00	Ninemile Creek	9.55	R	3	2013	X	X				X	X		X						
OK311300020032_00	Ninemile Creek, Unnamed Tributary of	3.70	R	3	2013	X					X	X		X						
OK311300020034_00	Ninemile Creek	3.33	R	3	2018	I	I				I	X		X						
OK311300020040_00	Wolf Creek	10.20	R	2	2013	X	X				F	X		X		X				
OK311300020050_00	Wolf Creek, East Branch	7.58	R	3	2013	X	X				X	X		X						
OK311300020060_00	Wolf Creek, West Branch	10.81	R	3	2013	X	X				X	X		X						
OK311300020070_00	Numu Creek	9.72	R	3	2013	X	X				X	X		X						
OK311300020090_00	Wrattan Creek	6.24	R	3	2013	X	X				X	X		X						
OK311300020100_00	George Lake	150	L	3	2016	X	X				X	X		X						

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OK311300020110_00	Sitting Bear Creek	5.31	R	3	2013	X	X				X	X		X						
OK311300020120_00	Beef Creek	9.79	R	3	2013	X	X				X	X		X						
OK311300020130_00	Lime Creek	7.52	R	3	2013	X	X				X	X		X						
OK311300020140_00	Rock Creek	5.46	R	3	2013	X	X				X	X		X						
OK311300030010_10	Cache Creek, East	28.40	R	3	2013	X	X				X	X		X		X				✓
OK311300030020_00	Ellsworth Lake	5,600	L	5a	2012	F	F				N	X		F		N				✓
OK311300030030_00	Chandler Creek	10.50	R	2	2013	I	X				F	X		X		X				✓
OK311300030040_00	Tony Creek	5.73	R	3	2013	X	X				X	X		X		X				✓
OK311300030050_00	Mission Creek	12.91	R	3	2013	X	X				X	X		X		X				✓
OK311300030060_00	Box Elder Creek	9.95	R	3	2013	I	I				I	X		X		X				✓
OK311300030070_00	Tahoe Creek	16.79	R	5a	2013	N	N				N	X		N		N				✓
OK311300030080_00	Unnamed Tributary	6.73	R	3	2013	X	X				X	X		X		X				✓
OK311300040010_00	Medicine Creek	11.95	R	3	2013	X	X				X	X		X		X				
OK311300040020_00	Ketch Creek	12.81	R	3	2013	X	X				X	X		X						
OK311300040030_00	Deer Creek	3.21	R	3	2013	X	X				X	X		X						
OK311300040040_00	Little Medicine Creek	3.99	R	3	2013	X	X				X	X		X		X				✓
OK311300040050_00	Elmer Thomas Lake	334	L	5a	2014	F	F				N	N		F		F				✓
OK311300040060_00	Medicine Creek	17.71	R	5a	2013	F	F				F	X		N		I				✓
OK311300040070_00	Lawtonka Lake	2,398	L	5a	2014	F	F				I	X		F		N				✓
OK311300040080_00	Canyon Creek	7.63	R	3	2013	X	X				X	X		X		X				✓
OK311300040090_00	Cedar Creek	4.34	R	3	2013	X	X				X	X		X		X				✓
OK311300040100_00	Jimmy Creek	7.02	R	2	2013	X	X				F	X		X		X				✓

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OK311300040110_00	Medicine Creek, Unnamed Trib of	6.67	R	3	2013	X	X				X	X		X		X				✓
OK311310010010_00	Red River	88.02	R	5a	2013	I	N				N	N		N			F			
OK311310010020_00	Rabbit Creek	13.98	R	3	2013	I	I				I	X		X		X				
OK311310010025_00	Hound Creek	7.56	R	5c	2018	I	N				X	X		X						
OK311310010030_00	Bird Creek	4.16	R	3	2013	X	X				X	X		X						
OK311310010035_00	Red River, Unnamed Tributary of	4.60	R	3	2013	X	X		X			X			X					
OK311310010040_00	Blue Creek	15.54	R	3	2013	X	X				X	X		X		X				
OK311310010050_00	Curtis Creek	12.98	R	3	2013	I	I				I	X		X						
OK311310010060_00	Cooper Creek	11.64	R	3	2013	X	X				X	X		X						
OK311310010070_00	Suttle Creek	19.41	R	5a	2013	I	N				N	X			I					
OK311310010080_00	Bottle Creek	5.11	R	3	2013	X	X				X	X		X						
OK311310010080_01	Bottle Creek	3.60	R	3	2013	X	X				X	X		X						
OK311310010090_00	Suttle Creek, Unnamed Tributary of	9.32	R	3	2013	X	X		X			X			X					
OK311310010100_00	Grandma Ruth Creek	10.84	R	3	2013	X	X				X	X		X						
OK311310020010_00	Cache Creek, West	9.10	R	5a	2013	F	N				N	F		N		I				
OK311310020010_10	Cache Creek, West	19.17	R	5a	2013	F	F				N	X		N		I				
OK311310020020_00	Cache Creek, West	16.45	R	3	2013	X	X				I	X		X		X				
OK311310020020_10	Cache Creek, West	13.58	R	3	2013	X	X				X	X		X		X				
OK311310020030_00	Pecan Creek	29.91	R	3	2013	X	X				X	X		X		X				
OK311310020040_00	Spring Creek	10.25	R	3	2013	X	X				X	X		X						
OK311310020043_00	Molly's Creek	2.29	R	3	2013	X	X				X	X		X						
OK311310020050_00	Blue Beaver Creek	8.00	R	3	2013	X	X				X	X		X		X				

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OK311310020060_00	Blue Beaver Creek	18.33	R	5a	2013	F	F				I	X		N		F				
OK311310020068_00	Rush Lake	53	L	5c	2018	X	X				X	N		X						
OK311310020070_00	Post Oak Creek	24.86	R	5a	2013	I	X				N	X		X		X				
OK311310020080_00	Little Post Oak Creek	23.15	R	3	2013	X	X				X	X		X						
OK311310020090_00	Sandy Creek	25.11	R	3	2013	X	X				X	X		X						
OK311310020100_00	Crater Creek	11.11	R	3	2013	X	X				X	X		X		X		✓		
OK311310020110_00	Rock Creek	8.78	R	3	2013	X	X				X	X		X						
OK311310020120_00	Quanah Creek	7.44	R	3	2013	X	X				X	X		X						
OK311310020130_00	Quanah Parker Lake	89	L	5c	2016	X	X				X	N		X						
OK311310020140_00	Cache Creek, West	8.47	R	2	2013	X	X				F	X		X		X		✓		
OK311310020150_00	Panther Creek	7.48	R	5a	2013	I	X				N	X		X		X		✓		
OK311310020160_00	Lost Lake	7	L	3	2016	X	X				X	X		X						
OK311310020170_00	French Lake	33	L	3	2016	X	X				X	X		X						
OK311310020180_00	Deer Creek	3.84	R	3	2013	X	X				X	X		X						
OK311310020190_00	Comanche Lake	46	L	3	2016	I	X				I	X		X						
OK311310020200_00	Grama Lake	94	L	3	2016	I	X				X	X		X						
OK311310020210_00	Kiowa Lake	9	L	3	2016	X	X				X	X		X						
OK311310030010_00	Deep Red Creek	57.29	R	5a	2013	F	N				N	X		N		I				
OK311310030020_00	Dry Red Creek	10.06	R	3	2013	I	I				I	X		X						
OK311310030030_00	Jack Creek	23.87	R	3	2013	I	I				I	X		X		X				
OK311310030031_00	Whites Creek	2.42	R	3	2013	X	X				X	X		X						
OK311310030032_00	Whites Lake	300	L	3	2016	X	X				X	X		X						

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OK311310030040_00	Little Deep Red Creek	33.57	R	5a	2013	I	N				N	X		N		I				
OK311310030050_00	Brush Creek	11.64	R	5a	2013	N	N				N	X		N						
OK311310030070_00	Jack Creek, East	12.08	R	3	2013	X	X				X	X		X		X				
OK311310030080_00	Horse Creek	23.41	R	3	2013	X	X				X	X		X		X				
OK311310030090_00	Deadman Creek	16.60	R	3	2013	X	X				X	X		X		X				
OK311310030100_00	Coffin Creek	11.19	R	3	2013	X	X				X	X		X						
OK311310030110_00	Deep Red Creek	21.47	R	3	2013	I	I				I	X		X		X				
OK311310030120_00	Frederick Lake	925	L	5a	2016	N	I				N	X		F		F				
OK311310030130_00	Deep Red Creek, East Fork	9.71	R	3	2013	X	X				X	X		X						
OK311500010010_00	Red River	17.91	R	2	2013	X	X				X	X		X			F			
OK311500010020_00	Red River, North Fork	22.72	R	3	2013	X	X				X	X		X		X				
OK311500010020_10	Red River, North Fork	61.70	R	5a	2013	F	N				N	F		N		I				
OK311500010020_20	Red River, North Fork	2.96	R	3	2013	X	X				X	X		X		X				
OK311500010023_00	Maxwell's Creek	2.83	R	3	2013	X	X				X	X		X						
OK311500010030_00	White Creek	5.33	R	3	2013	X	X				X	X		X						
OK311500010040_00	White Lake	10	L	3	2016	X	X				X	X		X						
OK311500010042_00	Red Top	4.48	R	3	2013	X	X				X	X		X						
OK311500010050_00	Stinking Creek	17.44	R	5a	2013	F	N				N	X		N		N				
OK311500010055_00	Stinking Creek, Unnamed Tributary of	11.93	R	3	2013	X	X		X			X			X		X			
OK311500010060_00	Mimi Creek	2.57	R	3	2013	X	X				X	X		X						
OK311500010070_00	Red Hollow	1.75	R	3	2013	X	X				X	X		X						
OK311500010080_00	Otter Creek	23.13	R	5a	2013	I	N				N	X		N		I				

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OK311500010090_00	Owl Creek	7.70	R	3	2013	I	I				I	X		X						
OK311500010110_00	Tepee Creek	19.44	R	5a	2013	I	N				F	X		N						
OK311500020010_00	Otter Creek, East	20.21	R	3	2013	I	I				I	X		X						
OK311500020020_00	Telephone Creek	10.11	R	3	2013	X	X				X	X		X						
OK311500020030_00	Boggy Hollow Creek	5.62	R	3	2013	X	X				X	X		X						
OK311500020040_00	Otter Creek, West	6.61	R	5a	2013	F	F				N	X		N		F				
OK311500020050_00	Otter Creek, West	13.85	R	3	2013	X	X				X	X		X		X				✓
OK311500020060_00	Tom Steed Lake (Mountain Park)	6,400	L	5a	2014	I	F				N	X		F		N				✓
OK311500020070_00	Glen Creek	14.15	R	3	2013	I	I				I	X		X		X				✓
OK311500030005_00	Wolfpack	3.67	R	3	2013	X	X				X	X		X						
OK311500030010_00	Elk Creek	15.70	R	5a	2013	F	F				N	N		N		I				
OK311500030030_00	Elk Creek	7.85	R	3	2013	I	I				I	X		I		I				
OK311500030030_10	Elk Creek	62.97	R	3	2013	X	X		X			X			X					
OK311500030040_00	Little Elk Creek	15.40	R	5a	2013	F	F				F	X		N		I				
OK311500030050_00	Little Elk Creek	17.40	R	2	2013	I	F				I	X		X						
OK311500030060_00	Rocky (Hobart) Lake	347	L	5a	2012	N	F				N	X		F		N				✓
OK311500030070_00	Trail Creek	19.15	R	5a	2013	F	N				I	X		N		I				
OK311500030080_00	Spring Creek	8.96	R	3	2013	X	X				X	X		X		X				
OK311500030090_00	George Creek	4.17	R	3	2013	X	X				X	X		X						
OK311500030100_00	Sadler Creek	8.98	R	3	2013	I	I				I	X		X						
OK311500030110_00	Elk Creek, West	9.68	R	3	2013	I	I				I	X		X						
OK311500030120_00	Elk City Lake	240	L	5a	2014	I	F				N	X		F						

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OK311510010010_10	Red River, North Fork	47.29	R	4a	2013	F	F				N	F		F		F				
OK311510010020_00	Altus Lake (Altus-Lugert)	6,260	L	5a	2014	F	F				N	X		I						
OK311510010030_00	Armstrong Creek	4.08	R	3	2013	X	X				X	X		X						
OK311510010040_00	Lake Creek	13.33	R	4a	2013	F	F				F	X		N						
OK311510010050_00	Boggy Creek	5.04	R	3	2013	I	I				I	X		X						
OK311510010060_00	Spring Creek	9.65	R	3	2013	X	X				X	X		X						
OK311510010070_00	Flat Creek	5.70	R	3	2013	X	X				X	X		X						
OK311510010080_00	Indian Creek	13.51	R	3	2013	X	X				X	X		X						
OK311510010090_00	Timber Creek	12.01	R	5a	2013	F	F				N	X		N		I				
OK311510010100_00	Coffee Bean Creek	6.82	R	3	2013	X	X				X	X		X						
OK311510010110_00	Spring Creek	6.16	R	3	2013	X	X				X	X		X						
OK311510010120_00	Timber Creek, East	5.11	R	3	2013	X	X				X	X		X						
OK311510010130_00	Timber Creek, West	5.89	R	3	2013	X	X				X	X		X						
OK311510020010_00	Red River, North Fork	37.86	R	5c	2013	I	I				N	X		X		X				
OK311510020020_00	Deep Creek	7.80	R	3	2013	X	X				X	X		X						
OK311510020030_00	Short Creek	9.58	R	3	2013	X	X				X	X		X						
OK311510020040_00	Sand Creek	13.05	R	5c	2013	I	X				N	X		X		I				
OK311510020050_00	Long Creek	17.28	R	3	2013	I	I				I	X		X		X				
OK311510020060_00	Turkey Creek	19.42	R	4a	2013	F	F				I	X		N		F				
OK311510020070_00	Starvation Creek	16.97	R	3	2013	I	I				I	X		X		X				
OK311510020080_00	Little Turkey Creek	15.89	R	3	2013	I	X				I	X		X						
OK311510020090_00	Buffalo Creek	20.32	R	5a	2013	F	N				F	X		N		I				

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OK311510020100_00	Buffalo Creek, West	7.90	R	3	2013	X	X				X	X		X						
OK311510020110_00	Middle Buffalo Creek	11.16	R	3	2013	X	X				X	X		X						
OK311510020120_00	Sweetwater Creek	16.43	R	5a	2013	F	N				F	X		N		I				
OK311510020130_00	Salt Creek	5.26	R	3	2013	I	I				I	X		X						
OK311510020140_00	Freezeout Creek	4.57	R	3	2013	X	X				X	X		X						
OK311510020150_00	Meridan Creek	8.52	R	3	2013	X	X				X	X		X						
OK311600010010_00	Red River	55.99	R	2	2013	X	X				X	X		X			F			
OK311600010020_00	Gypsum Creek	28.10	R	5a	2013	I	N				N	X		N		I				
OK311600010030_00	Mule Creek	5.98	R	3	2013	X	X				X	X		X						
OK311600010032_00	Mule Creek	6.74	R	3	2013	X	X				X	X		X						
OK311600010035_00	James Creek	5.64	R	3	2013	X	X				X	X		X						
OK311600010040_00	Sandy Creek (Lebos)	39.65	R	5a	2013	F	N		N			F			F		F			
OK311600010050_00	Sandy Creek, East Fork (Sandy)	14.16	R	3	2013	X	X				X	X		X						
OK311600010060_00	Sandy Creek, West Fork (Lebos)	13.22	R	3	2013	I	I		X			X			X					
OK311600010065_00	Lebos Creek, Unnamed Tributary of	2.30	R	3	2013	X	X		X			X			X					
OK311600010070_00	Bitter Creek	7.83	R	3	2013	I	I				I	X		X						
OK311600010080_00	Red River, Prairie Dog Town Fork	3.92	R	2	2013	X	X				X	X		X			F			
OK311600010085_00	Paradiagn	1.03	R	3	2013	X	X				X	X		X						
OK311600010090_00	Buck Creek	4.20	R	3	2013	I	I				I	X		X						
OK311600020010_00	Red River, Salt Fork	13.67	R	5a	2013	F	N				N	N		N		N				
OK311600020010_10	Red River, Salt Fork	69.63	R	5a	2013	I	F				F	N		N		F				
OK311600020030_00	West Canal	4.87	R	3	2013	X	X				X	X		X						

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OK311600020060_00	Turkey Creek	51.64	R	5a	2013	I	N				N	X		N		I				
OK311600020070_00	Horse Branch	21.29	R	3	2013	I	I				I	X		X						
OK311600020080_00	Spring Branch	6.55	R	3	2013	X	X				X	X		X						
OK311600020090_00	Cottonwood Creek	13.22	R	3	2013	X	X				X	X		X						
OK311600020110_00	Bitter Creek	3.60	R	5a	2013	X	X				X	N			X		F			
OK311600020110_05	Bitter Creek	7.80	R	5a	2013	F	N		N			N			N		F			
OK311600020110_10	Bitter Creek	18.57	R	5a	2013	X	X		X			N			X		F			
OK311600020115_00	Ronnie's Run	3.70	R	3	2013	X	X				X	X		X						
OK311600020120_00	Fish Creek	5.11	R	3	2013	X	X				X	X		X						
OK311600020130_00	Mulberry Creek	6.37	R	3	2013	I	I				I	X		X						
OK311600020140_00	Cave Creek	13.69	R	4a	2013	F	F				I	X		N						
OK311600020150_00	Horse Creek	5.17	R	3	2013	X	X				X	X		X						
OK311600020160_00	Hall Lake Creek	2.50	R	3	2013	X	X				X	X		X						
OK311600020170_00	Hall Lake	50	L	3	2016	X	X				X	X		X						
OK311600020180_00	Bear Creek	5.69	R	3	2013	I	I				I	X		X						
OK311800000010_00	Red River, Elm Fork	36.63	R	5a	2013	F	F				N	N		N		I				
OK311800000010_10	Red River, Elm Fork	25.69	R	5a	2013	F	N				N	I		I		I				
OK311800000015_00	Tarheel	4.83	R	3	2013	X	X				X	X		X						
OK311800000020_00	Left Ear creek	1.30	R	3	2013	X	X				X	X		X						
OK311800000030_00	Tittle Creek	7.77	R	3	2013	X	X				X	X		X						
OK311800000035_00	Good Golly	1.58	R	3	2013	X	X				X	X		X						
OK311800000040_00	Haystack Creek	43.06	R	5a	2013	F	N				N	X		N		I				

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OK311800000045_00	Rising Dawn	2.64	R	3	2013	X	X				X	X		X						
OK311800000050_00	Sleep John Creek	10.05	R	3	2013	X	X				X	X		X						
OK311800000060_00	Station Creek	10.58	R	5a	2013	F	N				F	X		N						
OK311800000070_00	Deer Creek	22.21	R	5a	2013	F	N				N	X		N		F				
OK311800000080_00	Sulphur Creek	10.21	R	3	2013	X	X				X	X		X						
OK311800000090_00	Root Creek	5.14	R	3	2013	X	X				X	X		X						
OK311800000100_00	Dos Hollis Lake	50	L	3	2016	X	X				X	X		X						
OK311800000110_00	Grape Creek	15.43	R	3	2013	X	X				X	X		X						
OK311800000120_00	Hackberry Creek	2.09	R	3	2013	X	X				X	X		X						
OK311800000130_00	Fish Creek	16.84	R	5a	2013	F	N				F	X		N		I				
OK311800000140_00	Minnow Creek	4.27	R	3	2013	X	X				X	X		X						
OK311800000150_00	Bull Creek	14.40	R	3	2013	X	X				X	X		X		X				
OK311800000160_00	Elm Creek	5.38	R	3	2013	X	X				X	X		X						
OK311800000170_00	Elm Creek, West	12.77	R	5a	2013	F	I				I	X		N		I				

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OK410100010010_00	Red River	13.36	R	3	2014	X	X				X	X		X		X				
OK410100010010_10	Red River	22.99	R	5a	2014	F	F				N	N		F		I				
OK410100010010_20	Red River	13.76	R	3	2014	X	X				X	X		X		X				
OK410100010010_30	Red River	12.83	R	3	2014	X	X				X	X		X		X				
OK410100010010_40	Red River	11.18	R	3	2014	X	X				X	X		X		X				
OK410100010010_50	Red River	7.03	R	3	2014	X	X				X	X		X		X				
OK410100010020_00	Breedlove Lake	1	L	3	2016	X	X				X	X		X						
OK410100010030_00	Bailey Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010040_00	Caney Lake	1	L	3	2016	X	X				X	X		X						
OK410100010050_00	Norwood Creek	20.15	R	5a	2014	F	F				N	X		I		X				
OK410100010060_00	Push Creek	11.58	R	3	2014	X	X				X	X		X						
OK410100010070_00	Norwood Creek, Trib	1.61	R	3	2014	X	X				X	X		X						
OK410100010080_00	Ward Lake	331	L	3	2016	X	X				X	X		X						
OK410100010090_00	Clear Lake	1	L	3	2016	X	X				X	X		X						
OK410100010100_00	1908 Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010110_00	Whitaker Bend Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010120_00	Holly Branch	9.93	R	3	2014	X	X				X	X		X						
OK410100010130_00	Deadman Lake Creek	0.40	R	3	2014	X	X				X	X		X						
OK410100010140_00	Deadman Lake	1	L	3	2016	X	X				X	X		X						
OK410100010150_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410100010160_00	Holly Branch Lake	1	L	3	2016	X	X				X	X		X						
OK410100010170_00	Forty-One Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						

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OK410100010180_00	Waterfall Creek	8.92	R	3	2014	X	X				X	X		X						
OK410100010190_00	Mintubbe Lake	1	L	3	2016	X	X				X	X		X						
OK410100010210_00	U. T. Waterfall Creek Lake	1	L	3	2016	X	X				X	X		X						
OK410100010230_00	Boss Creek	8.74	R	3	2014	X	X				X	X		X						
OK410100010240_00	Charles Lake Creek	2.77	R	3	2014	X	X				X	X		X						
OK410100010250_00	Charles Lake	1	L	3	2016	X	X				X	X		X						
OK410100010260_00	Old River Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010270_00	Fish Pond Lake	1	L	3	2016	X	X				X	X		X						
OK410100010280_00	Gilford Lake	1	L	3	2016	X	X				X	X		X						
OK410100010290_00	Bryarly Lake	1	L	3	2016	X	X				X	X		X						
OK410100010300_00	Colbert Lake	1	L	3	2016	X	X				X	X		X						
OK410100010310_00	Red Lake	1	L	3	2016	X	X				X	X		X						
OK410100010320_00	Horseshoe Lake, South	1	L	3	2016	X	X				X	X		X						
OK410100010330_00	Horseshoe Lake, North	1	L	3	2016	X	X				X	X		X						
OK410100010340_00	Waterhole Creek	16.61	R	5a	2014	F	F				N	X		I		X				
OK410100010360_00	Lick-Skillet Lake	1	L	3	2016	X	X				X	X		X						
OK410100010370_00	Bad Branch	2.93	R	3	2014	X	X				X	X		X						
OK410100010380_00	Perry Creek	6.77	R	3	2014	X	X				X	X		X						
OK410100010390_00	Bokchito Creek	7.44	R	3	2014	X	X				X	X		X						
OK410100010400_00	Whitegrass Creek	7.93	R	3	2014	X	X				X	X		X						
OK410100010420_00	Garvin Creek	5.54	R	3	2014	X	X				X	X		X						
OK410100010440_00	Clear Lake	1	L	3	2016	X	X				X	X		X						

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OK410100010450_00	Buzzard Creek	11.55	R	3	2014	X	X				X	X		X						
OK410100010456_00	Millerton Tribl	2.45	R	4a	2014	X	X		N			X			X					
OK410100010460_00	Garland Creek	6.09	R	3	2014		X				X	X		X						
OK410100010470_00	Valiant Creek	1.92	R	3	2014	X	X		X			X			X					
OK410100010480_00	Clear Creek	2.51	R	3	2014	X	X				X	X		X						
OK410100010490_00	Clear Creek	9.34	R	3	2014	I	I				I	X		X						
OK410100010500_00	Doaksville Creek	8.36	R	3	2014	X	X				X	X		X						
OK410100020010_00	Walnut Bayou	4.19	R	3	2014	X	X				X	X		X						
OK410100020020_00	Line Creek	2.99	R	3	2014	X	X				X	X		X						
OK410100020030_00	McKinney Creek	9.67	R	3	2014	X	X				X	X		X						
OK410100020040_00	Sandy Creek	2.27	R	3	2014	X	X				X	X		X						
OK410100020050_00	Yellow Branch	3.60	R	3	2014	X	X				X	X		X						
OK410100020060_00	Surratt Branch	4.88	R	3	2014	X	X				X	X		X						
OK410100020070_00	Parker Creek	6.51	R	3	2014	X	X				X	X		X						
OK410100020080_00	Pine Creek	6.86	R	3	2014	X	X				X	X		X						
OK410200010010_00	Little River	19.74	R	3	2014	X	X	X				X		X		X		✓		
OK410200010020_00	Buck Creek	12.93	R	3	2014	X	X				X	X		X						
OK410200010030_00	Camp Creek	1.10	R	3	2014	X	X				X	X		X						
OK410200010050_00	Red Branch	3.08	R	3	2014	X	X				X	X		X						
OK410200010060_00	Ponka Bok Creek	5.85	R	3	2014	X	X				X	X		X						
OK410200010080_00	Black Creek	5.11	R	3	2014	X	X				X	X		X						
OK410200010090_00	Crooked Creek	2.96	R	3	2014	X	X				X	X		X						

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OK410200010100_00	Forked Lake	1	L	3	2016	X	X				X	X		X						
OK410200010120_00	Goodwater Creek	7.68	R	3	2014	X	X				X	X		X						
OK410200010130_00	Terrapin Creek	5.16	R	3	2014	X	X				X	X		X						
OK410200010140_00	Crooked Creek	10.94	R	3	2014	X	X				X	X		X						
OK410200010150_00	Yanubbe Creek	10.53	R	3	2014	I	I	I				X		X		X				
OK410200010155_00	Yanubbe Creek, Unnamed Tributary of	2.52	R	3	2014	X	X		X			X			X					
OK410200010160_00	Coon Creek	5.61	R	3	2014	X	X				X	X		X						
OK410200010170_00	Yanubbee Creek, West Fork	1.97	R	3	2014	X	X				X	X		X						
OK410200010180_00	Yanubbee Creek, East Fork	2.16	R	3	2014	X	X				X	X		X						
OK410200010190_00	Yanubbee Creek, Middle Fork	2.16	R	3	2014	X	X				X	X		X						
OK410200010200_00	Little River	8.20	R	5a	2014	I	F	N				I		F		F		✓		
OK410200010200_10	Little River	24.14	R	5a	2014	F	F	N				F		F		F		✓		
OK410200010210_00	Mud Creek	17.66	R	5a	2014	I	I				N	I			X		F			
OK410200010218_00	Mud Creek, Unnamed Tributary of	0.70	R	3	2014	X	X		X			X			X					
OK410200010220_00	Rock Creek	4.97	R	3	2014	X	X				X	X		X		X				
OK410200010230_00	Yashoo Creek	19.80	R	3	2014	I	I	I				X		X		X				
OK410200010250_00	Long Branch	2.32	R	3	2014	I	I				X	X		X		I				
OK410200010260_00	Holly Creek	9.62	R	3	2014	X	X				X	X		X						
OK410200010280_00	Salt Creek	3.95	R	3	2014	X	X				X	X		X						
OK410200010300_00	Pine Lake	1	L	3	2016	X	X				X	X		X						
OK410200010320_00	Campbell Creek	2.30	R	3	2014	X	X				X	X		X						
OK410200010330_00	Boktuklo Creek	9.25	R	3	2014	X	X				X	X		X						

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OK410200010340_00	Courthouse Creek	6.71	R	3	2014	X	X				X	X		X						
OK410200020010_00	Caney Creek, North	9.27	R	3	2014	X	X				X	X		X						
OK410200020020_00	White Oak Creek	6.11	R	3	2014	X	X				X	X		X						
OK410200020030_00	Caney Creek, South	5.86	R	3	2014	X	X				X	X		X						
OK410200020040_00	Caney Creek, Middle	4.25	R	3	2014	X	X				X	X		X						
OK410200030010_00	Rock Creek	12.35	R	5a	2014	I	F	N				X		I		X				
OK410200030020_00	Cane Creek	4.69	R	3	2014	X	X				X	X		X						
OK410200030030_00	Twomile Creek	4.33	R	3	2014	X	X				X	X		X						
OK410200030040_00	Slate Creek	2.76	R	3	2014	X	X				X	X		X						
OK410200030050_00	Prairie Branch	2.27	R	3	2014	X	X				X	X		X						
OK410200030060_00	Pero Creek	7.10	R	3	2014	X	X				X	X		X						
OK410200030070_00	Little Rock Creek	4.16	R	3	2014	X	X				X	X		X						
OK410200030080_00	Rock Creek, Middle	4.29	R	3	2014	X	X				X	X		X						
OK410200030090_00	Rock Creek, West Fork	2.89	R	3	2014	X	X				X	X		X						
OK410200030100_00	Robinson Creek	8.91	R	3	2014	X	X				X	X		X						
OK410200030110_00	Ash Creek	5.36	R	3	2014	X	X				X	X		X						
OK410200030120_00	Bull Creek	2.90	R	3	2014	X	X				X	X		X						
OK410200030130_00	Cedar Branch	1.27	R	3	2014	X	X				X	X		X						
OK410200030140_00	Rough Creek	5.90	R	3	2014	X	X				X	X		X						
OK410200030150_00	Kings Branch	2.35	R	3	2014	X	X				X	X		X						
OK410210010010_00	Little River	14.41	R	3	2014	X	X	X				X		X		X		✓		
OK410210010030_00	Sand Creek	3.85	R	3	2014	X	X				X	X		X						

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OK410210010040_00	Wheelock Creek	3.46	R	3	2014	X	X				X	X		X						
OK410210010050_00	Martin Creek	3.99	R	3	2014	X	X				X	X		X						
OK410210010060_00	Horse Head Creek	8.85	R	2	2014	I	I				F	X		X		X				
OK410210010065_00	Horse Head Creek, Unnamed Tributary of	1.33	R	3	2014	X	X		X			X			X					
OK410210010070_00	Cypress Creek	20.73	R	5a	2014	I	F	N				X		I		X		✓		
OK410210010080_00	Rock Creek	6.42	R	3	2014	X	X				X	X		X						
OK410210010090_00	Wolf Creek	4.21	R	3	2014	X	X				X	X		X						
OK410210010100_00	Cypress Creek, North Fork	4.50	R	3	2014	X	X	X				X		X		X		✓		
OK410210010110_00	White Oak Creek	6.43	R	3	2014	I	I				I	X		X						
OK410210010120_00	Sand Springs Branch	3.43	R	3	2014	X	X				X	X		X						
OK410210010130_00	Little White Oak Creek	2.79	R	3	2014	X	X				X	X		X						
OK410210010140_00	Stevens Creek	5.25	R	3	2014	X	X				X	X		X						
OK410210020010_00	Little River	3.90	R	3	2014	I	X	X				X		X		X		✓		
OK410210020020_00	Pine Creek Lake	3,750	L	5a	2012	F	F				N	N		F		F		✓		
OK410210020030_00	Pine Creek	6.01	R	3	2014	X	X	X				X		X		X		✓		
OK410210020040_00	Big Branch	2.44	R	3	2014	X	X				X	X		X						
OK410210020050_00	Rock Creek	4.46	R	3	2014	X	X				X	X		X						
OK410210020070_00	Long Creek	6.07	R	3	2014	X	X				X	X		X						
OK410210020080_00	Wilson Creek	6.77	R	3	2014	X	X				X	X		X						
OK410210020090_00	Long Creek, North	3.28	R	3	2014	X	X				X	X		X						
OK410210020100_00	Long Creek, South	2.60	R	3	2014	X	X				X	X		X						
OK410210020110_00	Turkey Creek	11.77	R	3	2014	X	X				X	X		X						

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OK410210020120_00	Turkey Creek, North	4.69	R	3	2014	X	X				X	X		X						
OK410210020130_00	Little Turkey Creek	5.20	R	3	2014	X	X				X	X		X						
OK410210020140_00	Little River	24.68	R	5a	2014	F	F	N				N		F		F		✓		
OK410210020140_10	Little River	2.57	R	3	2014	X	X	X				X		X		X		✓		
OK410210020150_00	Terrapin Creek	13.47	R	5c	2014	F	F	N				X		I		X		✓		
OK410210020160_00	Deer Creek	4.73	R	3	2014	X	X				X	X		X						
OK410210020170_00	Terrapin Creek, West	12.45	R	3	2014	X	X				X	X		X						
OK410210020180_00	Terrapin Creek, Middle	5.66	R	3	2014	X	X				X	X		X						
OK410210020190_00	Terrapin Creek, East	6.46	R	3	2014	X	X				X	X		X						
OK410210020200_00	Salt Creek	5.16	R	3	2014	X	X				X	X		X						
OK410210020210_00	Houston Creek	4.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210020220_00	Rain Creek	4.33	R	3	2014	X	X				X	X		X						
OK410210020230_00	Can Creek	3.57	R	3	2014	X	X				X	X		X						
OK410210020240_00	Caney Creek	11.09	R	3	2014	I	I	X				X		X						
OK410210020250_00	Rock Pen Creek	5.27	R	3	2014	X	X				X	X		X						
OK410210020260_00	Holly Creek	7.23	R	3	2014	I	I				I	X		X						
OK410210020270_00	Holly Creek, South	6.38	R	3	2014	X	X				X	X		X						
OK410210020280_00	Devil's Backbone Creek	3.52	R	3	2014	X	X				X	X		X						
OK410210020290_00	Holly Creek, North	6.58	R	3	2014	X	X				X	X		X						
OK410210020300_00	Cloudy Creek	25.63	R	5a	2014	F	F	N				X		I		X		✓		
OK410210020310_00	Big Branch	2.24	R	3	2014	X	X				X	X		X						
OK410210020320_00	Brushy Creek	8.62	R	3	2014	X	X				X	X		X						

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OK410210020330_00	Bullpen Creek	3.24	R	3	2014	X	X				X	X		X						
OK410210020340_00	Brushy Creek, North	5.02	R	3	2014	X	X				X	X		X						
OK410210020350_00	Dog Creek	3.62	R	3	2014	X	X				X	X		X						
OK410210020360_00	Harris Creek	3.11	R	3	2014	X	X				X	X		X						
OK410210020370_00	Bear Canyon Creek	4.02	R	3	2014	X	X				X	X		X						
OK410210020380_00	Pickens Creek	11.21	R	3	2014	I	I				I	X		X						
OK410210020390_00	Buzzard Creek	4.14	R	3	2014	X	X				X	X		X						
OK410210020400_00	Pickens Creek, North	4.83	R	3	2014	X	X				X	X		X						
OK410210020410_00	Harris Creek	4.56	R	3	2014	X	X				X	X		X						
OK410210020420_00	Harris Creek, North	3.88	R	3	2014	X	X				X	X		X						
OK410210020430_00	Jack Creek	7.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210020450_00	Watson Creek	6.03	R	3	2014	I	I				I	X		X						
OK410210020460_00	Watson Creek, North	4.55	R	3	2014	X	X				X	X		X						
OK410210020470_00	Watson Creek, South	4.03	R	3	2014	X	X				X	X		X						
OK410210030010_00	Little River	39.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210030020_00	Little River, Black Fork	31.00	R	5a	2014	I	F	N				X		I		X		✓		
OK410210030030_00	Cripple Creek	10.91	R	3	2014	X	X				X	X		X						
OK410210030040_00	Buzzard Creek	5.97	R	3	2014	X	X				X	X		X						
OK410210030050_00	Hardy Creek	4.42	R	3	2014	X	X				X	X		X						
OK410210030060_00	Long Creek	7.58	R	3	2014	X	X				X	X		X						
OK410210030070_00	Garland Creek	6.81	R	3	2014		X				X	X		X						
OK410210030080_00	Davis Branch	4.60	R	3	2014	X	X				X	X		X						

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OK410210030090_00	Paley Creek	4.74	R	3	2014	X	X				X	X		X						
OK410210030100_00	Le Flore Creek	3.83	R	3	2014	X	X				X	X		X						
OK410210030110_00	Polecat Creek	2.14	R	3	2014	X	X				X	X		X						
OK410210030120_00	Wildhorse Creek	8.21	R	3	2014	X	X				X	X		X						
OK410210030130_00	Uphill Creek	5.01	R	3	2014	X	X				X	X		X						
OK410210030140_00	Cedar Creek	2.86	R	3	2014	X	X				X	X		X						
OK410210030150_00	Honobia Creek	22.20	R	3	2014	I	I				I	X		X						
OK410210030160_00	Crane Hollow Creek	3.55	R	3	2014	X	X				X	X		X						
OK410210030170_00	Dutchman Ridge Creek	2.79	R	3	2014	X	X				X	X		X						
OK410210030180_00	Deadman Hollow Creek	4.52	R	3	2014	X	X				X	X		X						
OK410210030190_00	Brushy Creek	4.57	R	3	2014	X	X				X	X		X						
OK410210030200_00	Holly Creek	4.06	R	3	2014	X	X				X	X		X						
OK410210030220_00	Cowhead Divide Creek	2.53	R	3	2014	X	X				X	X		X						
OK410210030230_00	Little Rock Creek	6.69	R	3	2014	X	X				X	X		X						
OK410210030240_00	Fisher Branch	3.08	R	3	2014	X	X				X	X		X						
OK410210030260_00	Cedar Creek	2.77	R	3	2014	X	X				X	X		X						
OK410210030270_00	Rock Creek	5.28	R	3	2014	X	X				X	X		X						
OK410210040010_00	Little River, Mountain Fork	8.73	R	3	2014	X	X	X				X		X		X		✓		
OK410210040010_10	Little River, Mountain Fork	1.14	R	5a	2012	F	F			N		N		F		F		✓		
OK410210040020_00	Luksuklo Creek	14.70	R	3	2014	X	X				X	X		X						
OK410210040030_00	Lick Creek	8.98	R	3	2014	X	X				X	X		X						
OK410210040040_00	Lick Creek Branch	1.66	R	3	2014	X	X				X	X		X						

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OK410210040050_00	Little River, Mountain Fork	9.08	R	3	2014	X	X			X		X		X		X		✓		
OK410210040060_00	Cooper Creek	6.16	R	3	2014	X	X				X	X		X						
OK410210040070_00	Rough Branch	2.33	R	3	2014	X	X				X	X		X						
OK410210040080_00	Horsepen Creek	1.80	R	3	2014	X	X				X	X		X						
OK410210040090_00	Slate Branch	2.77	R	3	2014	X	X				X	X		X						
OK410210040100_00	Carnasaw Creek	1.46	R	3	2014	X	X				X	X		X						
OK410210040110_00	Beaver Creek	2.27	R	3	2014	X	X				X	X		X						
OK410210040120_00	Bee Branch	1.83	R	3	2014	X	X				X	X		X						
OK410210050010_00	Little River, Mountain Fork	2.21	R	3	2014	X	X			X		X		X		X		✓		
OK410210050020_00	Broken Bow Lake	14,200	L	5a	2012	F	F				N	N		F		I				✓
OK410210050040_00	Biggam Creek	2.05	R	3	2014	X	X				X	X		X						
OK410210050060_00	Walford Creek	2.26	R	3	2014	X	X				X	X		X						
OK410210050090_00	Cedar Creek	3.09	R	3	2014	X	X				X	X		X						
OK410210050100_00	Lower Cedar Creek	2.53	R	3	2014	X	X				X	X		X						
OK410210050110_00	Cedar Creek, North	1.83	R	3	2014	X	X				X	X		X						
OK410210050120_00	Fivemile Hollow Creek	2.75	R	3	2014	X	X				X	X		X						
OK410210050130_00	Nancy Branch	2.07	R	3	2014	X	X	X				X		X						
OK410210050140_00	Egypt Creek	3.41	R	3	2014	X	X	X				X		X		X				✓
OK410210050170_00	Bee Creek	3.12	R	3	2014	X	X				X	X		X						
OK410210050180_00	Bee Creek, North	3.38	R	3	2014	X	X				X	X		X						
OK410210050190_00	Otter Creek	7.06	R	3	2014	X	X	X				X		X		X				✓
OK410210050200_00	Otter Creek, East	3.24	R	3	2014	X	X				X	X		X						

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OK410210050210_00	Bear Creek	2.11	R	3	2014	X	X				X	X		X						
OK410210050220_00	Cane Creek	3.59	R	3	2014	X	X				X	X		X						
OK410210050240_00	Holly Creek, North	4.83	R	3	2014	X	X				X	X		X						
OK410210050250_00	Holly Creek, South	4.19	R	3	2014	X	X				X	X		X						
OK410210050270_00	Linson Creek, North	7.02	R	3	2014	X	X				X	X		X						
OK410210050280_00	Linson Creek, South	5.18	R	3	2014	X	X				X	X		X						
OK410210050290_00	Gar Creek	3.23	R	3	2014	X	X				X	X		X						
OK410210050300_00	Panther Branch	4.76	R	3	2014	X	X				X	X		X						
OK410210050310_00	Chee Creek	2.01	R	3	2014	X	X				X	X		X						
OK410210050320_00	Turkey Creek	6.38	R	3	2014	X	X				X	X		X						
OK410210050330_00	Hee Creek	2.58	R	3	2014	X	X				X	X		X						
OK410210050340_00	Buck Creek	3.87	R	3	2014	X	X				X	X		X						
OK410210050350_00	Hudson Creek	2.05	R	3	2014	X	X				X	X		X						
OK410210050360_00	Panther Creek	5.13	R	3	2014	X	X	X				X		X		X			✓	
OK410210060010_00	Little River, Mountain Fork	0.52	R	3	2014	X	X	X				X		X		X				✓
OK410210060010_10	Little River, Mountain Fork	28.08	R	5a	2012	I	F	N				F		F		F			✓	
OK410210060020_00	Buffalo Creek	23.38	R	5a	2014	F	F	N				X		I		X				✓
OK410210060030_00	Big Hudson Creek	6.28	R	3	2014	I	I	X				X		X						
OK410210060040_00	Little Hudson Creek	3.18	R	3	2014	X	X				X	X		X						
OK410210060050_00	Little Dry Creek	7.11	R	3	2014	X	X				X	X		X						
OK410210060060_00	Mine Creek	3.21	R	3	2014	I	I	X				X		X						
OK410210060080_00	Rock Creek	3.70	R	3	2014	X	X				X	X		X						

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OK410210060100_00	Boktuklo Creek	15.33	R	3	2014	X	X	X				X		X		X			✓	
OK410210060110_00	Blue Creek	3.05	R	3	2014	X	X	X				X		X		X			✓	
OK410210060120_00	Boktuklo Creek, East	9.90	R	3	2014	I	I				I	X		X						
OK410210060130_00	Ward Creek	1.71	R	3	2014	X	X				X	X		X						
OK410210060140_00	Ramos Creek	4.11	R	3	2014	X	X				X	X		X						
OK410210060150_00	Roosevelt Creek	6.62	R	3	2014	X	X				X	X		X						
OK410210060160_00	Big Eagle Creek	20.50	R	5a	2014	F	F	N				X		I		X			✓	
OK410210060170_00	Little Eagle Creek	10.11	R	3	2014	I	I	I				X		X		X			✓	
OK410210060190_00	Potts Creek	4.51	R	3	2014	X	X				X	X		X						
OK410210060210_00	Cucumber Creek	10.72	R	2	2014	I	I	F				X		X		X			✓	
OK410210060220_00	Saddle Rock Creek	4.65	R	3	2014	X	X				X	X		X						
OK410210060240_00	Rock Creek	9.98	R	3	2014	I	I				I	X		X						
OK410210060250_00	Hurricane Creek	9.64	R	3	2014	X	X				X	X		X						
OK410210060270_00	Dry Creek	10.24	R	3	2014	I	I				I	X		X						
OK410210060280_00	Mudlick Creek	3.48	R	3	2014	X	X				X	X		X						
OK410210060290_00	Panther Creek	2.17	R	3	2014	X	X				X	X		X						
OK410210060310_00	Sixmile Creek	3.89	R	3	2014	I	I				I	X		X						
OK410210060320_00	Beech Creek	12.71	R	5a	2014	F	F	N				X		I		X			✓	
OK410210060330_00	Turkey Snout Creek	2.62	R	3	2014	X	X	X				X		X		X			✓	
OK410210060340_00	Caney Creek	2.63	R	3	2014	X	X				X	X		X						
OK410210060350_00	Cow Creek	11.03	R	5a	2014	F	F	N				X		I		X			✓	
OK410210060360_00	Murry Creek	3.85	R	3	2014	X	X				X	X		X						

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OK410210060370_00	Little Cow Creek	4.26	R	3	2014	X	X	X				X		X		X			✓	
OK410210060380_00	Little River, Mountain Fork	3.89	R	3	2014	X	X	X				X		X		X			✓	
OK410210060390_00	Mackey Creek	0.57	R	3	2014	X	X				X	X		X						
OK410210060400_00	Horsepen Creek	3.60	R	3	2014	X	X				X	X		X						
OK410210060410_00	Dark Hollow Creek	2.45	R	3	2014	X	X				X	X		X						
OK410210060420_00	Richmond Creek	1.93	R	3	2014	X	X				X	X		X						
OK410210060430_00	Brushy Creek	1.92	R	3	2014	X	X				X	X		X						
OK410210060440_00	Wilcox Branch	0.87	R	3	2014	X	X	X				X		X		X			✓	
OK410210060450_00	Big Eagle Creek, Unnamed Trib of	2.36	R	3	2014	X	X	X				X		X		X			✓	
OK410210070010_00	Lukfata Creek	17.80	R	5a	2014	F	F	N				X		I		X		✓		
OK410210070020_00	Stephens Branch	4.50	R	3	2014	X	X				X	X		X						
OK410210070030_00	Briar Branch	2.64	R	3	2014	X	X				X	X		X						
OK410210070040_00	Lufkata Creek, West Fork	3.74	R	3	2014	X	X				X	X		X						
OK410210070050_00	Lufkata Creek, East Fork	3.17	R	3	2014	X	X				X	X		X						
OK410210070060_00	Lufkata Creek, Middle Fork	3.13	R	3	2014	X	X				X	X		X						
OK410210080010_00	Glover River	33.95	R	5a	2012	F	F	N				F		F		F		✓		
OK410210080020_00	Mitchell Creek	4.04	R	3	2014	X	X				X	X		X						
OK410210080030_00	Harkin Franklin Creek	2.73	R	3	2014	X	X				X	X		X						
OK410210080040_00	Benningfield Creek	4.06	R	3	2014	X	X				X	X		X						
OK410210080050_00	Fifteen Creek	2.57	R	3	2014	X	X				X	X		X						
OK410210080060_00	Gibbs Creek	3.79	R	3	2014	X	X				X	X		X						
OK410210080070_00	Colbert Creek	5.01	R	3	2014	X	X				X	X		X						

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OK410210080080_00	Lost Springs Creek	3.82	R	3	2014	X	X				X	X		X						
OK410210080090_00	Tidwell Creek	3.75	R	3	2014	X	X				X	X		X						
OK410210080100_00	Caney Creek	2.18	R	3	2014	X	X				X	X		X						
OK410210080110_00	Lebow Hollow Creek	2.15	R	3	2014	X	X				X	X		X						
OK410210080120_00	Cedar Creek	11.32	R	2	2014	I	I	F				X		X		X		✓		
OK410210080130_00	Cedar Creek, North	3.07	R	3	2014	X	X				X	X		X						
OK410210080140_00	Cedar Creek, South	3.51	R	3	2014	X	X				X	X		X						
OK410210080150_00	Brigham Young Springs Creek	2.02	R	3	2014	X	X				X	X		X						
OK410210080160_00	Shell Rock Creek	4.80	R	3	2014	X	X				X	X		X						
OK410210080170_00	Wolf Hollow Creek	3.01	R	3	2014	X	X				X	X		X						
OK410210080180_00	Whiskey Branch	1.85	R	3	2014	X	X				X	X		X						
OK410210080190_00	Shorty Cox Hollow Creek	1.86	R	3	2014	X	X				X	X		X						
OK410210080200_00	Burks Hollow Creek	2.15	R	3	2014	X	X				X	X		X						
OK410210080210_00	Carter Creek	11.34	R	3	2014	X	X	X				X		X		X		✓		
OK410210080220_00	Carter Creek, North	7.88	R	3	2014	X	X				X	X		X						
OK410210080230_00	Carter Creek, Middle	5.97	R	3	2014	X	X				X	X		X						
OK410210080240_00	Mud Creek	1.92	R	3	2014	X	X				X	X		X						
OK410210080250_00	Carter Creek, South	2.08	R	3	2014	X	X				X	X		X						
OK410210080260_00	Beeman Creek	3.83	R	3	2014	X	X				X	X		X						
OK410210080270_00	Pine Creek	5.77	R	3	2014	X	X	X				X		X		X		✓		
OK410210080280_00	Canyon Creek	5.86	R	3	2014	X	X				X	X		X						
OK410210080290_00	Little Pine Creek	6.64	R	3	2014	X	X	X				X		X		X		✓		

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OK410210090010_00	Glover River, East Fork	21.60	R	5a	2014	F	F	N				F		I		F		✓		
OK410210090020_00	Willis Creek	6.69	R	3	2014	X	X				X	X		X						
OK410210090030_00	Coon Creek	12.32	R	3	2014	X	X				X	X		X						
OK410210090050_00	Carpenter Branch	4.66	R	3	2014	X	X				X	X		X						
OK410210090070_00	Glover River, West Fork	20.69	R	2	2014	F	F	I				X		X		X		✓		
OK410210090080_00	Rocky Creek	6.09	R	3	2014	X	X				X	X		X						
OK410210090090_00	Winship Branch	3.73	R	3	2014	X	X				X	X		X						
OK410210090100_00	Silver Creek	12.04	R	3	2014	I	I				I	X		X						
OK410210090110_00	Little Silver Creek	8.98	R	3	2014	X	X				X	X		X						
OK410210090120_00	Little Silver Creek, West	5.65	R	3	2014	X	X				X	X		X						
OK410210090130_00	Little Silver Creek, East	3.26	R	3	2014	X	X				X	X		X						
OK410210090140_00	Edwards Creek	3.32	R	3	2014	X	X				X	X		X						
OK410210090150_00	Watson Branch	1.54	R	3	2014	X	X				X	X		X						
OK410210090160_00	Bluff Creek	3.69	R	5c	2014	I	X	N				X		X		X		✓		
OK410210090170_00	Blackwell Branch	2.50	R	3	2014	X	X				X	X		X						
OK410210090180_00	East Creek	7.03	R	3	2014	I	I				I	X		X						
OK410210090190_00	Dog Creek	4.12	R	3	2014	X	X				X	X		X						
OK410300010010_00	Kiamichi River	18.11	R	5a	2012	F	F				N	N		F		N				
OK410300010020_00	Gates Creek	4.85	R	5a	2014	I	F	N				X		I		X				
OK410300010030_00	Gates Creek	12.83	R	3	2014	X	X	X				X		X		X				
OK410300010040_00	Raymond Gary Lake	263	L	2	2014	F	F				I	X		I						
OK410300010050_00	Cedar Creek	2.60	R	3	2014	X	X				X	X		X						

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OK410300010060_00	Negro Creek	2.50	R	3	2014	X	X		X			X			X					
OK410300010070_00	Cold Springs Branch	4.22	R	3	2014	X	X				X	X		X						
OK410300010080_00	Bull Creek	7.46	R	3	2014	X	X				X	X		X						
OK410300010090_00	Tuttle Creek	4.84	R	3	2014	X	X				X	X		X						
OK410300010100_00	Bird Creek	8.05	R	2	2012	F	F				I	X		I		I				
OK410300010110_00	Sandy Branch	2.77	R	3	2014	X	X				X	X		X						
OK410300010120_00	Rock Creek	4.65	R	3	2014	X	X				X	X		X						
OK410300010130_00	Rock Creek	4.57	R	3	2014	X	X				X	X		X						
OK410300020010_10	Kiamichi River	15.53	R	3	2014	X	X				X	X		X		X				
OK410300020020_00	Hugo Lake	13,250	L	5a	2012	N	F				N	N		F		F				
OK410300020030_00	Cedar Creek	6.87	R	3	2014	X	X				X	X		X						
OK410300020040_00	Salt Creek	0.82	R	3	2014	X	X				X	X		X						
OK410300020050_00	Wire Branch	4.59	R	3	2014	X	X				X	X		X						
OK410300020060_00	Kiamichi River, North Fork	11.00	R	3	2014	I	I				I	X		X		X				
OK410300020070_00	Miller Creek	3.93	R	3	2014	X	X				X	X		X						
OK410300020080_00	Long Creek	5.89	R	3	2014	X	X				X	X		X		X				
OK410300020100_00	Holly Creek, North Fork	3.42	R	3	2014	X	X				X	X		X						
OK410300020110_00	Holly Creek, South Fork	3.39	R	3	2014	X	X				X	X		X						
OK410300020120_00	Schooler Lake	1	L	3	2016	X	X				X	X		X						
OK410300020130_00	Frazier Creek	15.63	R	3	2014	X	X	X				X		X		X				
OK410300020140_00	Spencer Creek	12.01	R	3	2014	X	X				X	X		X						
OK410300020150_00	Hampton Creek	2.53	R	3	2014	X	X				X	X		X						

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OK410300020160_00	Hog Creek	5.67	R	3	2014	X	X				X	X		X						
OK410300020170_00	Crooked Creek	4.74	R	3	2014	X	X				X	X		X						
OK410300020180_00	South Branch	5.42	R	3	2014	X	X				X	X		X						
OK410300020190_00	Rock Creek	13.96	R	5a	2014	I	F	N				X		I						
OK410300020200_00	Possum Creek	6.45	R	3	2014	X	X				X	X		X						
OK410300020210_00	Fish Creek	6.19	R	3	2014	X	X				X	X		X						
OK410300020220_00	Ozzie Cobb Lake	116	L	5a	2012	N	F				N	X		F						
OK410300020230_00	One Creek	10.58	R	3	2014	X	X				X	X		X						
OK410300020240_00	Holly Branch	2.60	R	3	2014	X	X				X	X		X						
OK410300020250_00	Negro Creek	6.27	R	3	2014	X	X				X	X		X						
OK410300020260_00	Hagerman Creek	3.19	R	3	2014	X	X				X	X		X						
OK410300020270_00	Mill Creek	5.73	R	3	2014	X	X				X	X		X						
OK410300020280_00	Big Waterhole Creek	8.20	R	3	2014	X	X				X	X		X						
OK410300020300_00	Little Waterhole Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300020310_00	Duck Creek	5.67	R	3	2014	X	X				X	X		X						
OK410300030010_00	Kiamichi River	2.97	R	3	2014	X	X				X	X		X		X				
OK410300030010_10	Kiamichi River	10.30	R	5a	2012	F	F				N	N		F		F				
OK410300030010_20	Kiamichi River	11.36	R	3	2014	X	X				X	X		X		X				
OK410300030020_00	Cedar Creek	7.26	R	3	2014	X	X	X				X		X		X		✓		
OK410300030020_10	Cedar Creek	23.36	R	5a	2014	F	F	N				X		I		X		✓		
OK410300030030_00	Briar Branch	2.32	R	3	2014	X	X				X	X		X						
OK410300030040_00	Bitter Creek	7.43	R	3	2014	X	X				X	X		X						

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OK410300030050_00	Chickasaw Creek	6.37	R	3	2014	X	X				X	X		X						
OK410300030060_00	One Creek	19.68	R	5a	2014	I	F				N	X		I						
OK410300030070_00	Medicine Springs Creek	2.63	R	3	2014	X	X				X	X		X						
OK410300030080_00	One Creek, North	8.95	R	3	2014	X	X				X	X		X						
OK410300030090_00	One Creek, Middle	7.88	R	3	2014	X	X				X	X		X						
OK410300030100_00	Dog Creek	4.83	R	3	2014	X	X				X	X		X						
OK410300030110_00	West Fork Creek	11.80	R	3	2014	X	X				X	X		X						
OK410300030120_00	Turkey Creek	4.99	R	3	2014	X	X				X	X		X						
OK410300030130_00	Stovepipe Creek	2.95	R	3	2014	X	X				X	X		X						
OK410300030140_00	Possum Creek	4.98	R	3	2014	X	X				X	X		X						
OK410300030150_00	Snow Creek	3.14	R	3	2014	X	X				X	X		X						
OK410300030160_00	Caney Creek	13.70	R	3	2014	X	X				X	X		X						
OK410300030170_00	Cedar Creek, North	5.39	R	3	2014	X	X				X	X		X						
OK410300030180_00	Little Cedar Creek	7.06	R	3	2014	X	X				X	X		X						
OK410300030190_00	Little Cedar Creek Lake	1	L	3	2016	X	X				X	X		X						
OK410300030200_00	Beaver Creek	12.02	R	3	2014	X	X				X	X		X		X				
OK410300030210_00	Dumpling Creek	13.73	R	5c	2014	F	F				N	X		I						
OK410300030220_00	Charlie Creek	3.93	R	3	2014	X	X				X	X		X						
OK410300030230_00	Coffee Creek	3.73	R	3	2014	X	X				X	X		X						
OK410300030240_00	Judge Cox Branch	3.81	R	3	2014	X	X				X	X		X						
OK410300030250_00	Panther Creek	4.81	R	3	2014	X	X				X	X		X						
OK410300030260_00	Caroline Creek	3.37	R	3	2014	X	X				X	X		X						

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OK410300030270_00	Tenmile Creek	35.75	R	5a	2012	I	F				N	X		N		I				
OK410300030280_00	Rock Creek	4.13	R	3	2014	X	X				X	X		X						
OK410300030290_00	Stink Branch	2.49	R	3	2014	X	X				X	X		X						
OK410300030300_00	Cole Creek	5.57	R	3	2014	X	X				X	X		X						
OK410300030310_00	Hampton Creek	5.60	R	3	2014	X	X				X	X		X						
OK410300030320_00	Davenport Creek	7.84	R	3	2014	X	X				X	X		X						
OK410300030330_00	Little Davenport Creek	4.49	R	3	2014	X	X				X	X		X						
OK410300030340_00	Yerby Branch	2.24	R	3	2014	X	X				X	X		X						
OK410300030350_00	Rough Hollow Creek	2.38	R	3	2014	X	X				X	X		X						
OK410300030360_00	Pine Creek	3.85	R	3	2014	X	X				X	X		X						
OK410300030370_00	Clear Creek	13.04	R	3	2014	X	X				X	X		X						
OK410300030380_00	Little Tenmile Creek	5.78	R	3	2014	X	X				X	X		X						
OK410300030400_00	Cobb Lake	1	L	3	2016	X	X				X	X		X						
OK410300030410_00	Frederick Creek	2.80	R	3	2014	X	X				X	X		X						
OK410300030420_00	Buck Creek	35.60	R	5a	2014	I	F				N	X		I		X				
OK410300030430_00	Whiskey Creek	3.62	R	3	2014	X	X				X	X		X						
OK410300030440_00	Clay Branch	2.21	R	3	2014	X	X				X	X		X						
OK410300030450_00	Wildhorse Creek	6.77	R	3	2014	X	X				X	X		X						
OK410300030460_00	Little Wildhorse Creek	3.14	R	3	2014	X	X				X	X		X						
OK410300030470_00	Kimbrough Creek	5.18	R	3	2014	X	X				X	X		X						
OK410300030480_00	Shorty Creek	6.25	R	3	2014	X	X				X	X		X						
OK410300030490_00	Fobb Creek	11.58	R	3	2014	X	X				X	X		X						

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OK410300030500_00	Cole Creek	7.59	R	3	2014	X	X				X	X		X						
OK410300030510_00	Happy Hollow Creek	3.89	R	3	2014	X	X				X	X		X		X				
OK410300030520_00	Grassy Creek	4.19	R	3	2014	X	X				X	X		X		X				
OK410300030530_00	Robinson Creek	4.99	R	3	2014	X	X				X	X		X						
OK410300030540_00	Grassy Creek	3.78	R	3	2014	X	X				X	X		X						
OK410300030550_00	Lily Pond Creek	3.20	R	3	2014	X	X				X	X		X						
OK410300030560_00	Mud Creek	2.66	R	3	2014	X	X				X	X		X						
OK410300030570_00	Kiamichi River	24.39	R	3	2014	X	X				X	X		X		X				
OK410300030570_10	Kiamichi River	1.96	R	3	2014	X	X				X	X		X		X				
OK410300030580_00	Pine Creek	23.49	R	5c	2012	F	F				N	X		I						
OK410300030590_00	Wildcat Creek	8.31	R	3	2014	X	X				X	X		X						
OK410300030600_00	Marble Creek	8.22	R	3	2014	X	X				X	X		X						
OK410300030610_00	Caney Creek	15.66	R	3	2014	X	X				X	X		X						
OK410300030620_00	Spring Branch	1.16	R	3	2014	X	X				X	X		X						
OK410300030630_00	Silver Creek	4.74	R	3	2014	X	X				X	X		X						
OK410300030640_00	John's Creek	2.14	R	3	2014	X	X				X	X		X						
OK410300030650_00	Fobb Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300030660_00	Peveyhouse Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300030670_00	Bull Creek	5.18	R	3	2014	X	X				X	X		X						
OK410300030680_00	Long Bell Creek	5.28	R	3	2014	X	X				X	X		X						
OK410300030690_00	Hackett Creek	4.96	R	3	2014	X	X				X	X		X						
OK410300030700_00	Beulah Creek	4.24	R	3	2014	X	X				X	X		X						

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OK410300030710_00	Crumb Creek	9.60	R	3	2014	X	X				X	X		X						
OK410300030720_00	Stanley Creek, South	1.56	R	3	2014	X	X				X	X		X						
OK410300030730_00	Little Cedar Creek	5.25	R	3	2014	X	X				X	X		X						
OK410300030740_00	Clayton Creek, West	1.12	R	3	2014	X	X				X	X		X						
OK410300030750_00	Peterson Creek	6.27	R	3	2014	X	X				X	X		X						
OK410300030760_00	Peal Creek	7.49	R	3	2014	X	X				X	X		X		X				✓
OK410300030770_00	Hurd Creek	7.39	R	3	2014	X	X				X	X		X						
OK410300030780_00	Clayton Lake	95	L	3	2016	X	X				X	X		X		X				✓
OK410310010010_00	Kiamichi River	26.35	R	5b	2012	F	F				N	N		F		F				
OK410310010020_00	Jackfork Creek	2.79	R	2	2014	I	X				I	X		X		F				✓
OK410310010030_00	Terryland Creek	2.31	R	3	2014	X	X				X	X		X						
OK410310010040_00	Nanih Waiya Creek	2.03	R	3	2014	I	I				I	I		X		I				
OK410310010050_00	Nanih Waiya Lake	131	L	2	2012	F	F				F	X		F						
OK410310010060_00	Old Choctaw Creek	1.54	R	3	2014	X	X				X	X		X						
OK410310010070_00	Dry Creek	6.45	R	2	2014	F	I				I	X		I						
OK410310010090_00	Walnut Creek	3.44	R	3	2014	X	X				X	X		X						
OK410310010100_00	Walnut Creek, North Fork	5.82	R	3	2014	X	X				X	X		X						
OK410310010110_00	Walnut Creek, South Fork	3.42	R	3	2014	X	X				X	X		X						
OK410310010140_00	Albion Creek	6.11	R	3	2014	X	X				X	X		X						
OK410310010150_00	Clear Creek	2.56	R	3	2014	X	X				X	X		X						
OK410310010170_00	Rock Creek	8.19	R	3	2014	X	X				X	X		X		X				
OK410310010180_00	Prairie Creek	5.85	R	3	2014	X	X				X	X		X						

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OK410310010190_00	Jackson Creek	7.96	R	3	2014	X	X				X	X		X						
OK410310010200_00	Rock Creek, East Fork	7.07	R	3	2014	X	X				X	X		X						
OK410310010210_00	Rock Creek	4.67	R	3	2014	I	I				I	X		X		I				✓
OK410310010220_00	Carl Albert Lake	183	L	5a	2012	F	F				N	X		F		F				✓
OK410310010230_00	Talihina Lake	25	L	5a	2016	X	I				N	X		X		X				✓
OK410310020010_00	Kiamichi River	21.24	R	3	2014	X	X				X	X		X		X				
OK410310020010_10	Kiamichi River	25.18	R	5a	2012	F	F				N	F		F		F				
OK410310020020_00	Tombstone Creek	11.18	R	3	2014	X	X				X	X		X						
OK410310020030_00	Frazier Creek	11.06	R	3	2014	X	X				X	X		X						
OK410310020040_00	Bohannon Creek	9.39	R	3	2014	X	X				X	X		X						
OK410310020050_00	Woods Creek	6.03	R	3	2014	X	X				X	X		X						
OK410310020060_00	Sycamore Creek	9.12	R	3	2014	X	X				X	X		X						
OK410310020070_00	Billy Creek	8.91	R	5a	2014	I	F				N	X		I						
OK410310020080_00	Billy Creek, East	4.55	R	3	2014	X	X				X	X		X						
OK410310020090_00	Little Cedar Creek	4.15	R	3	2014	X	X				X	X		X						
OK410310020100_00	Big Cedar Creek	5.83	R	5c	2014	F	F				N	X		I						
OK410310020110_00	Pigeon Creek	3.48	R	3	2014	X	X	X				X		X		X				
OK410310030020_00	Sardis Lake	13,610	L	5a	2012	F	F				N	N		F		F				✓
OK410310030030_00	Buffalo Creek	10.72	R	3	2014	X	X				X	X		X		X				✓
OK410310030040_00	Cedar Creek	5.40	R	3	2014	X	X				X	X		X						
OK410310030050_00	Little Buffalo Creek	6.88	R	3	2014	X	X				X	X		X						
OK410310030060_00	Anderson Creek	6.37	R	3	2014	X	X				X	X		X						

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OK410310030070_00	Anderson Creek, West Fork	8.90	R	3	2014	X	X				X	X		X						
OK410310030080_00	Jackfork Creek, North Fork	20.99	R	3	2014	X	X				X	X		X						
OK410310030090_00	Bolen Creek	8.54	R	5a	2014	F	N				N	X		N						
OK410310030100_00	Jackfork Creek	12.72	R	3	2014	X	X				X	X		X		X				✓
OK410310030110_00	Maxwell Creek	6.67	R	3	2014	X	X				X	X		X						
OK410310030120_00	Clear Creek	11.00	R	3	2014	X	X				X	X		X						
OK410400010010_00	Red River	12.92	R	3	2014	X	X				X	X		X		X				
OK410400010010_10	Red River	12.81	R	3	2014	X	X				X	X		X		X				
OK410400010010_20	Red River	4.86	R	5a	2014	F	F				N	F		F		I				
OK410400010010_30	Red River	8.17	R	3	2014	X	X				X	X		X		X				
OK410400010010_40	Red River	13.62	R	3	2014	X	X				X	X		X		X				
OK410400010010_50	Red River	2.23	R	3	2014	X	X				X	X		X		X				
OK410400010010_60	Red River	6.51	R	3	2014	X	X				X	X		X		X				
OK410400010010_70	Red River	6.63	R	3	2014	X	X				X	X		X		X				
OK410400010020_00	Goodwater Creek	8.04	R	3	2014	X	X				X	X		X						
OK410400010030_00	Carney Creek	10.46	R	3	2014	X	X				X	X		X						
OK410400010040_00	Horse Creek	7.76	R	5a	2014	I	F				N	X		I		X				
OK410400010040_10	Horse Creek	6.90	R	3	2014	X	X				X	X			X					
OK410400010045_00	Horse Creek, Unnamed Tributary of	2.53	R	3	2014	X	X		X			X			X					
OK410400010050_00	Owl Creek	8.50	R	3	2014	X	X				X	X		X						
OK410400010060_00	Roebuck Lake	1	L	3	2016	X	X				X	X		X						
OK410400010070_00	Muddy Boggy Creek	21.59	R	5a	2012	F	F				N	N		N		I				

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OK410400010080_00	Hanubby Creek	12.33	R	3	2014	X	X				X	X		X						
OK410400010090_00	Red River, Unnamed Tributary of	2.80	R	3	2014	X	X		X			X			X					
OK410400010110_00	Crowder Creek	12.14	R	3	2014	X	X				X	X		X						
OK410400010120_00	Crooked Creek	8.04	R	3	2014	X	X				X	X		X						
OK410400010130_00	Lick Creek	20.19	R	5a	2014	F	F				N	X		I		X				
OK410400010140_00	Rock Creek	7.78	R	3	2014	X	X				X	X		X						
OK410400010150_00	Pointer Creek	6.14	R	3	2014	X	X				X	X		X						
OK410400010160_00	Dry Pointer Creek	2.25	R	3	2014	X	X				X	X		X						
OK410400010170_00	Big Branch	3.89	R	3	2014	I	I				I	X		X						
OK410400010180_00	Beaverdam Creek	11.52	R	3	2014	I	I				I	X		X						
OK410400010190_00	Bee Creek	3.28	R	3	2014	X	X				X	X		X						
OK410400010200_00	Sugar Creek	7.92	R	3	2014	X	X				X	X		X						
OK410400010210_00	Whitegrass Creek	29.71	R	5a	2014	F	F				N	X		I		X				
OK410400010220_00	Dry Creek	3.92	R	3	2014	X	X				X	X		X						
OK410400010230_00	Little Dry Creek	3.54	R	3	2014	X	X				X	X		X						
OK410400010240_00	Carson Branch	4.72	R	3	2014	X	X				X	X		X						
OK410400010250_00	Frazier Creek	4.43	R	3	2014	X	X				X	X		X						
OK410400010260_00	Slash Creek	3.74	R	3	2014	X	X				X	X		X						
OK410400010270_00	Whitesand Creek	5.45	R	3	2014	X	X				X	X		X						
OK410400010280_00	Winters Creek	4.69	R	3	2014	X	X				X	X		X						
OK410400010290_00	Rabbit Creek	2.08	R	3	2014	X	X				X	X		X						
OK410400010300_00	Bokchito Creek	11.88	R	3	2016	X	X				X	X		X						

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OK410400010310_00	Crane Lake	1	L	3	2016	X	X				X	X		X						
OK410400020010_00	Clear Boggy Creek	33.42	R	3	2014	I	X				I	X		X		X				
OK410400020010_10	Clear Boggy Creek	8.20	R	3	2014	X	X				X	X		X		X				
OK410400020020_00	Mayhew Creek	9.72	R	3	2014	X	X				X	X		X						
OK410400020025_00	Boswell Creek!	2.96	R	3	2014	X			X			X			X					
OK410400020030_00	Ross Branch	3.81	R	3	2014	X	X				X	X		X						
OK410400020040_00	Newkirk Lake	1	L	3	2016	X	X				X	X		X						
OK410400020050_00	Rocky Branch	3.20	R	3	2014	X	X				X	X		X						
OK410400020060_00	Pecan Branch	4.40	R	3	2014	X	X				X	X		X						
OK410400020070_00	Cold Springs Creek	6.61	R	3	2014	X	X				X	X		X						
OK410400020080_00	Dobbins Lake	1	L	3	2016	X	X				X	X		X						
OK410400020090_00	Sandy Creek	5.70	R	3	2014	X	X				X	X		X						
OK410400020100_00	Shawnee Creek	7.58	R	3	2014	X	X				X	X		X						
OK410400020110_00	Delaware Creek	11.24	R	3	2014	X	X				X	X		X						
OK410400020120_00	Crooked Creek	2.39	R	3	2014	X	X				X	X		X						
OK410400020130_00	Harrington Creek	3.81	R	3	2014	X	X				X	X		X						
OK410400020140_00	Dancing Rabbit Creek	5.19	R	3	2014	X	X				X	X		X						
OK410400020150_00	Mossy Lake	1	L	3	2016	X	X				X	X		X						
OK410400020160_00	Bois d' Arc Creek	9.99	R	3	2014	X					X	X		X						
OK410400020170_00	Straight Creek	5.55	R	3	2014	X	X				X	X		X						
OK410400020180_00	Attaway Spring Creek	0.80	R	3	2014	X	X				X	X		X						
OK410400020190_00	Odell Spring Creek	0.32	R	3	2014	X	X				X	X		X						

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OK410400020200_00	Caney Creek	11.67	R	5a	2014	F	F				N	X		I						
OK410400020210_00	Caney Creek, West Branch	7.51	R	3	2014	X	X				X	X		X						
OK410400020220_00	Caney Creek, East Branch	1.96	R	3	2014	X	X				X	X		X						
OK410400020230_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410400020240_00	Pine Creek	8.03	R	3	2014	X	X				X	X		X						
OK410400020250_00	Long Branch	7.18	R	3	2014	X	X				X	X		X						
OK410400020260_00	Cowpen Creek	12.55	R	3	2014	X	X				X	X		X						
OK410400020270_00	Little Cowpen Creek	3.80	R	3	2014	X	X				X	X		X						
OK410400020280_00	Twin Lake	1	L	3	2016	X	X				X	X		X						
OK410400020290_00	Sand Creek	9.48	R	3	2014	X	X				X	X		X						
OK410400020300_00	Fronterhouse Creek	8.88	R	3	2014	X	X				X	X		X						
OK410400030010_00	Clear Boggy Creek	22.76	R	5a	2012	F	F				N	N		N		I				
OK410400030020_00	Caney Creek	12.42	R	2	2014	I	F				F	X			I					
OK410400030030_00	Davis Creek	9.68	R	3	2014	X	X				X	X		X						
OK410400030040_00	Caddo Creek	2.22	R	3	2014	X	X				X	X		X						
OK410400030050_00	Cat Creek	3.85	R	3	2014	X	X				X	X		X						
OK410400030060_00	Buffalo Creek	3.25	R	3	2014	X	X				X	X		X						
OK410400030070_00	Big Branch	8.41	R	3	2014	X	X				X	X		X						
OK410400030080_00	Big Slough	3.32	R	3	2014	X	X				X	X		X						
OK410400030090_00	Lain Lake	1	L	3	2016	X	X				X	X		X						
OK410400030100_00	Salt Creek	6.45	R	3	2014	X	X				X	X		X						
OK410400030110_00	Rock Creek	5.75	R	3	2014	X	X				X	X		X						

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OK410400030120_00	Rock Creek Lake	248	L	5a	2016	F	F				N	X		F						
OK410400030130_00	Dry Boggy Creek	10.79	R	3	2014	X	X				X	X		X						
OK410400030140_00	Watson Creek	8.26	R	3	2014	X	X				X	X		X						
OK410400030150_00	Sandy Creek	7.87	R	3	2014	X	X				X	X		X						
OK410400030160_00	Sandy Creek	14.01	R	3	2014	I	I				X	X		X						
OK410400030170_00	Ream Lake	1	L	3	2016	X	X				X	X		X						
OK410400030180_00	Birch Creek	3.55	R	3	2014	X	X				X	X		X						
OK410400030190_00	Rock Creek	4.52	R	3	2014	X	X				X	X		X						
OK410400030200_00	Clear Boggy Creek (old channel)	6.85	R	3	2014	X	X				X	X		X						
OK410400030210_00	Coon Creek	4.67	R	3	2014	X	X				X	X		X						
OK410400030230_00	Clear Boggy Creek	10.74	R	3	2014	X	X				X	X		X		X				
OK410400030230_10	Clear Boggy Creek	16.72	R	3	2014	X	X				X	X		X		X				
OK410400030240_00	Delaware Creek	29.01	R	5a	2014	I	F				F	X		N		X				
OK410400030250_00	Clarita Creek	10.26	R	3	2014	X	X				X	X		X						
OK410400030260_00	Walnut Branch	12.14	R	3	2014	X	X				X	X		X						
OK410400030280_00	Sandy Creek	5.34	R	3	2014	X	X				X	X		X		X				
OK410400030290_00	Wapanucka Creek	1.77	R	3	2014	X	X		X			X			X					
OK410400030300_00	Wapanucka City Lake	1	L	3	2016	X	X				X	X		X						
OK410400030305_00	Wapanucka Creek, West	1.60	R	3	2014	X	X				X	X		X						
OK410400030310_00	Wapanucka Lake	1	L	3	2016	X	X				X	X		X						
OK410400030320_00	Wide Springs Branch	2.95	R	3	2014	X	X				X	X		X		X				
OK410400030330_00	Houghtubby Branch	4.22	R	3	2014	X	X				X	X		X						

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OK410400030340_00	Deadman Spring Creek	3.15	R	3	2014	X	X				X	X		X						
OK410400030350_00	Elm Creek	7.81	R	3	2014	X	X				X	X		X						
OK410400030360_00	Little Caney Creek	7.90	R	3	2014	X	X				X	X		X						
OK410400030370_00	Leader Creek	29.58	R	5a	2014	I	F				N	X		I						
OK410400030380_00	Owl Creek	7.86	R	3	2014	X	X				X	X		X						
OK410400030390_00	Peach Creek	6.32	R	3	2014	X	X				X	X		X						
OK410400030400_00	Tupelo Creek	2.05	R	3	2014	X	X				X	X		X						
OK410400030410_00	Turkey Creek	5.37	R	3	2014	X	X				X	X		X						
OK410400030420_00	Coon Creek	4.46	R	3	2014	X	X				X	X		X						
OK410400030430_00	Sandy Creek	5.53	R	3	2014	X	X				X	X		X						
OK410400030440_00	Lula Creek, East	1.40	R	3	2014	X	X				X	X		X						
OK410400030450_00	Bois d' Arc Creek	3.16	R	3	2014	X	X				X	X		X						
OK410400030460_00	Bully Creek	6.34	R	3	2014	X	X				X	X		X						
OK410400030470_00	Lula Creek	2.12	R	3	2014	X	X				X	X		X						
OK410400030480_00	Leader Creek, West	4.34	R	3	2014	X	X				X	X		X						
OK410400030490_00	Goose Creek	15.09	R	5a	2014	F	F				N	X		I						
OK410400030510_00	Coffee Pot Spring Creek	4.43	R	3	2014	X	X				X	X		X						
OK410400030520_00	Coal Creek	16.29	R	3	2014	X	X				X	X		X						
OK410400030523_00	Diamond Creek	0.64	R	2	2014	I	F				I	X		X		I				
OK410400030530_00	Wildcat Springs Creek	0.37	R	3	2014	X	X				X	X		X						
OK410400030540_00	Rock Creek	10.60	R	3	2014	X	X				X	X		X						
OK410400030550_00	Coapont Lake	1	L	3	2016	X	X				X	X		X						

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OK410400040010_00	Clear Boggy Creek	30.64	R	3	2014	I	I				I	X		X		I				
OK410400040020_00	Buck Creek	13.16	R	3	2014	X	X				X	X		X						
OK410400040030_00	Owl Creek	5.20	R	3	2014	X	X				X	X		X						
OK410400040040_00	Salt Creek	4.53	R	3	2014	X	X				X	X		X						
OK410400040050_00	Buck Creek, East	5.42	R	3	2014	X	X				X	X		X						
OK410400040060_00	Buck Creek, West	6.58	R	3	2014	X	X				X	X		X						
OK410400040070_00	Sheep Creek	9.29	R	3	2014	I	I				I	X		X		I				
OK410400040080_00	Canyon Creek	5.95	R	3	2014	X	X				X	X		X						
OK410400040090_00	Mill Creek	9.59	R	2	2014	I	F				I	X		X		I				
OK410400040100_00	Walnut Creek	5.86	R	3	2014	X	X				X	X		X						
OK410400040110_00	Bois d' Arc Creek	11.27	R	3	2014	X	X				X	X		X						
OK410400040130_00	Jack Creek	1.52	R	3	2014	X	X				X	X		X						
OK410400040140_00	Jack Creek, North	8.04	R	3	2014	X	X				X	X		X						
OK410400040150_00	Jack Creek, South	9.28	R	3	2014	X	X				X	X		X						
OK410400040160_00	Rhoda Creek	6.75	R	3	2014	X	X				X	X		X						
OK410400040170_00	Lake Creek	3.96	R	5a	2014	F	N				F	I		X		F				
OK410400040180_00	Ada Lake	108	L	3	2016	X	X				X	X		X						
OK410400050010_00	Muddy Boggy Creek	3.87	R	3	2014	I	X				I	X		X		X				
OK410400050010_10	Muddy Boggy Creek	29.37	R	3	2014	X	X				X	X		X		X				
OK410400050020_00	Tanyard Creek	9.31	R	3	2014	X	X				X	X		X						
OK410400050040_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410400050050_00	Salt Lake	1	L	3	2016	X	X				X	X		X						

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OK410400050060_00	Louie Lake	1	L	3	2016	X	X				X	X		X						
OK410400050070_00	Boehler Lake Creek	5.13	R	3	2014	X	X				X	X		X						
OK410400050080_00	Clear Lake	1	L	3	2016	X	X				X	X		X						
OK410400050090_00	Boehler Lake	1	L	3	2016	X	X				X	X		X						
OK410400050100_00	Caney Creek	9.15	R	3	2014	X	X				X	X		X						
OK410400050110_00	Lamey Slash	3.31	R	3	2014	X	X				X	X		X						
OK410400050120_00	Boggy Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410400050130_00	Potubbi Creek	7.27	R	3	2014	X	X				X	X		X						
OK410400050140_00	Allen Lake Creek	1.68	R	3	2014	X	X				X	X		X						
OK410400050150_00	Allen Lake	1	L	3	2016	X	X				X	X		X						
OK410400050160_00	Sand Branch	1.72	R	3	2014	X	X				X	X		X						
OK410400050170_00	Atoka Lake Creek	1.48	R	3	2014	X	X				X	X		X						
OK410400050180_00	Atoka Lake	1	L	3	2014	X	X				X	X		X						
OK410400050190_00	Sandy Creek	11.82	R	3	2014	X	X				X	X		X						
OK410400050200_00	Rard Branch	2.39	R	3	2014	X	X				X	X		X						
OK410400050210_00	Cold Springs Creek	4.63	R	3	2014	X	X				X	X		X						
OK410400050220_00	Sandy Creek, East	3.06	R	3	2014	X	X				X	X		X						
OK410400050230_00	Dry Lake	1	L	3	2016	X	X				X	X		X						
OK410400050240_00	Crystal Creek	0.39	R	3	2014	X	X				X	X		X						
OK410400050250_00	Crystal Creek, North	3.84	R	3	2014	X	X				X	X		X						
OK410400050260_00	Crystal Creek, South	2.64	R	3	2014	X	X				X	X		X						
OK410400050270_00	Muddy Boggy Creek	24.53	R	3	2014	X	X				X	X		X		X				

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OK410400050270_10	Muddy Boggy Creek	22.25	R	5a	2012	F	F				N	N		N		I				
OK410400050290_00	Medicine Branch	3.31	R	3	2014	X	X				X	X		X						
OK410400050300_00	Wilson Creek	4.60	R	3	2014	X	X				X	X		X						
OK410400050310_00	Double Springs Creek	5.97	R	3	2014	X	X				X	X		X						
OK410400050320_00	Double Springs Creek, South Branch	2.61	R	3	2014	X	X				X	X		X						
OK410400050330_00	Double Springs Creek, North Branch	2.31	R	3	2014	X	X				X	X		X						
OK410400050340_00	August Creek	5.88	R	3	2014	X	X				X	X		X						
OK410400050350_00	East Branch	2.79	R	3	2014	X	X				X	X		X						
OK410400050360_00	Cabin Creek	2.70	R	3	2014	X	X				X	X		X						
OK410400050370_00	Rock Creek	5.58	R	3	2014	X	X				X	X		X						
OK410400050380_00	Little Rock Creek	3.33	R	3	2014	X	X				X	X		X						
OK410400050390_00	Campbell Creek	4.24	R	3	2014	X	X				X	X		X						
OK410400050400_00	Prairie Hollow Creek	3.31	R	3	2014	X	X				X	X		X						
OK410400050410_00	Boggy Creek, North	7.25	R	5a	2014	F	N				N	X		N		X				
OK410400050415_00	North Boggy Creek, Unnamed Tributary of	3.31	R	3	2014	X	X		X			X			X					
OK410400050420_00	Chickasaw Creek	14.03	R	3	2014	X	X				X	X		X						
OK410400050430_00	Little Chickasaw Creek	6.17	R	3	2014	X	X				X	X		X						
OK410400050440_00	Rocky Creek	1.57	R	3	2014	X	X				X	X		X						
OK410400050450_00	Breadtown Creek	8.70	R	3	2014	X	X				X	X		X						
OK410400050460_00	Breadtown Creek, East	4.03	R	3	2014	X	X				X	X		X						
OK410400050470_00	Sand Creek	4.58	R	3	2014	X	X				X	X		X						
OK410400050480_00	Tumbler Creek	3.00	R	3	2014	X	X				X	X		X						

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OK410400050490_00	Sandy Creek	4.15	R	3	2014	X	X				X	X		X						
OK410400050495_00	Muddy Boggy Creek, Unnamed Tributary of	4.06	R	3	2014	X	X		X			X			X					
OK410400050500_00	Sand Creek	6.04	R	3	2014	X	X				X	X		X						
OK410400050510_00	Atoka Lake	1	L	3	2014	X	X				X	X		X						
OK410400050520_00	Long Creek	5.33	R	3	2014	X	X				X	X		X						
OK410400050530_00	Thompson Creek	7.53	R	3	2014	X	X				X	X		X						
OK410400050540_00	Coal Creek	8.70	R	3	2014	X	X				X	X		X		X				
OK410400050550_00	French Henry Creek	6.92	R	3	2014	X	X				X	X		X						
OK410400050560_00	Dunford Creek	5.54	R	3	2014	X	X				X	X		X						
OK410400050570_00	Sandy Creek	2.80	R	3	2014	X	X				X	X		X						
OK410400050580_00	Brier Creek	8.86	R	3	2014	X	X				X	X		X						
OK410400050585_00	Brier Creek, Unnamed Tributary of	3.01	R	3	2017	X	X		X			X			X					
OK410400050590_00	Sulphur Creek	4.91	R	3	2014	X	X				X	X		X						
OK410400060010_00	Muddy Boggy Creek	15.34	R	3	2014	X	X				X	X		X		X				
OK410400060010_10	Muddy Boggy Creek	13.49	R	3	2014	X	X				X	X		X		X				
OK410400060010_20	Muddy Boggy Creek	15.02	R	3	2014	X	X				X	X		X		X				
OK410400060010_30	Muddy Boggy Creek	20.56	R	5c	2014	I	N				N	X		X		I				
OK410400060020_00	Caney Creek	13.00	R	3	2014	X	X				X	X		X		X				
OK410400060030_00	Coon Creek	7.21	R	3	2014	X	X				X	X		X		X				✓
OK410400060040_00	Coalgate Municipal Lake	352	L	5a	2014	N	F				N	N		F		I				✓
OK410400060050_00	Coon Creek, North	6.37	R	3	2014	X	X				X	X		X		X				✓
OK410400060060_00	Caney Creek Lake	1	L	3	2016	X	X				X	X		X						

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OK410400060070_00	Coal Creek	11.44	R	3	2014	X	X				X	X		X						
OK410400060080_00	Phillips Hollow Creek	2.97	R	3	2014	X	X				X	X		X						
OK410400060090_00	Salt Creek	20.06	R	3	2014	X	X				X	X		X						
OK410400060100_00	Keel Creek	10.23	R	3	2014	X	X				X	X		X						
OK410400060110_00	Salt Creek, North	3.49	R	3	2014	X	X				X	X		X						
OK410400060120_00	Caney Boggy Creek	26.49	R	5a	2014	F	F				N	X		I		X				
OK410400060140_00	Ranch Creek	12.63	R	3	2014	X	X				X	X		X						
OK410400060150_00	King Hollow Creek	3.43	R	3	2014	X	X				X	X		X						
OK410400060160_00	Sandy Creek	7.75	R	3	2014	X	X				X	X		X						
OK410400060170_00	Piney Creek	4.71	R	3	2014	X	X				X	X		X						
OK410400060180_00	Rock Creek	8.92	R	3	2014	X	X				X	X		X						
OK410400060190_00	Salt Creek	3.17	R	3	2014	X	X				X	X		X						
OK410400060200_00	Rock Creek	12.87	R	3	2014	X	X				X	X		X						
OK410400060210_00	Black Creek	7.23	R	3	2014	X	X				X	X		X						
OK410400060220_00	Cedar Creek	5.12	R	3	2014	X	X				X	X		X						
OK410400060230_00	Pine Creek	5.04	R	3	2014	X	X				X	X		X						
OK410400060240_00	Panther Creek	11.25	R	3	2014	X	X				X	X		X						
OK410400060250_00	Gerty Creek	3.46	R	3	2014	X	X				X	X		X						
OK410400060260_00	Big Sandy Creek	13.94	R	3	2014	X	X				X	X		X						
OK410400060270_00	Little Sandy Creek	7.78	R	3	2014	X	X		X			X			X					
OK410400060290_00	Sincere Creek	16.83	R	3	2014	X	X				X	X		X						
OK410400060300_00	Little Sandy Creek	4.66	R	3	2014	X	X				X	X		X						

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OK410400060310_00	Town Branch	2.70	R	3	2014	X	X		X						X					
OK410400070010_00	McGee Creek	32.08	R	5c	2014	I	F				N	X		I		X				✓
OK410400070020_00	McGee Creek Lake	3,810	L	5a	2012	F	F				N	N		F		I				✓
OK410400070030_00	Crooked Oak Creek	3.91	R	3	2014	X	X				X	X		X						
OK410400070040_00	Potapo Creek	6.01	R	3	2014	X	X				X	X		X						
OK410400070050_00	Panther Creek	1.58	R	3	2014	X	X				X	X		X						
OK410400070060_00	Cat Creek	3.89	R	3	2014	X	X				X	X		X						
OK410400070070_00	Kennedy Hollow Creek	3.61	R	3	2014	X	X				X	X		X						
OK410400070080_00	Peacock Hollow Creek	2.66	R	3	2014	X	X				X	X		X						
OK410400070090_00	Prairie Hollow Creek	0.67	R	3	2014	X	X				X	X		X						
OK410400070100_00	Mill Creek	6.58	R	3	2014	X	X				X	X		X		X				
OK410400070110_00	Blue Creek	2.73	R	3	2014	X	X				X	X		X						
OK410400070140_00	Bugaboo Creek	2.06	R	3	2014	X	X				X	X		X						
OK410400070150_00	Bear Creek	3.48	R	3	2014	X	X				X	X		X						
OK410400070160_00	Little Caney Creek	4.21	R	3	2014	X	X				X	X		X						
OK410400070170_00	Grassy Branch	4.60	R	3	2014	X	X				X	X		X						
OK410400070180_00	Whiskey Hollow Branch	2.44	R	3	2014	X	X				X	X		X						
OK410400070190_00	Ray Hollow Creek	3.62	R	3	2014	X	X				X	X		X						
OK410400070200_00	Ray Creek	4.78	R	3	2014	X	X				X	X		X						
OK410400070230_00	Tommy Bond Branch	5.24	R	3	2014	X	X				X	X		X						
OK410400070250_00	Baker Branch	3.99	R	3	2014	X	X				X	X		X						
OK410400070260_00	Little Caney Creek	3.82	R	3	2014	X	X				X	X		X						

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OK410400070270_00	Cedar Creek	2.81	R	3	2014	X	X				X	X		X						
OK410400070280_00	Prairie Creek	6.05	R	3	2014	X	X				X	X		X						
OK410400070290_00	Molletuby Creek	7.16	R	3	2014	X	X				X	X		X						
OK410400070310_00	Ingersoll Creek	4.12	R	3	2014	X	X				X	X		X						
OK410400080010_00	Boggy Creek, North	27.84	R	3	2014	X	X				X	X		X		X				✓
OK410400080020_00	Atoka Lake	5,700	L	5a	2014	N	F				N	N		F		F				✓
OK410400080030_00	Mill Creek	7.39	R	3	2014	X	X				X	X		X						
OK410400080040_00	McEntire Lake	1	L	3	2016	X	X				X	X		X						
OK410400080050_00	Elm Creek	2.87	R	3	2014	X	X				X	X		X						
OK410400080060_00	Sub-Penitentiary Lake	1	L	3	2016	X	X				X	X		X		X				
OK410400080070_00	Chilly Creek	3.29	R	3	2014	X	X				X	X		X						
OK410400080090_00	Troney Lake	1	L	3	2016	X	X				X	X		X						
OK410400080100_00	Beck Creek	5.06	R	3	2014	X	X				X	X		X						
OK410400080110_00	Buck Creek	14.81	R	3	2014	X	X				X	X		X						
OK410400080120_00	Limestone Creek	5.91	R	3	2014	X	X				X	X		X						
OK410400080140_00	Owl Creek	5.69	R	3	2014	X	X				X	X		X						
OK410400080150_00	Roberts Creek	3.07	R	3	2014	X	X				X	X		X						
OK410400080160_00	Fivemile Creek	9.77	R	3	2014	X	X				X	X		X						
OK410400080170_00	King Creek	6.35	R	3	2014	X	X				X	X		X						
OK410400080180_00	Birch Creek	9.68	R	3	2014	X	X				X	X		X						
OK410400080190_00	Kiowa Lake Creek	4.30	R	3	2014	X	X				X	X		X						
OK410400080200_00	Kiowa Lake	1	L	3	2016	X	X				X	X		X		X				

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OK410400080210_00	Sassafras Creek	5.27	R	3	2014	X	X				X	X		X						
OK410600010010_00	Blue River	48.17	R	1	2014	F	F				F	F		F		F				
OK410600010020_00	Red Branch	5.27	R	3	2014	X	X				X	X		X						
OK410600010030_00	Sulphur Creek	14.61	R	5a	2014	F	F				N	X		I						
OK410600010040_00	Wolf Creek	4.35	R	3	2014	X	X				X	X		X						
OK410600010050_00	McGee Creek	4.69	R	3	2014	X	X				X	X		X						
OK410600010060_00	Sassafras Creek	6.77	R	3	2014	X	X				X	X		X						
OK410600010070_00	Rock Branch	2.85	R	3	2014	X	X				X	X		X						
OK410600010080_00	Cherokee Lake	1	L	3	2016	X	X				X	X		X						
OK410600010090_00	Bokchito Creek	16.78	R	2	2014	F	F				I	X		I						
OK410600010095_00	Bokchito Creek, Unnamed Tributary of	1.98	R	3	2014	X	X		X			X			X					
OK410600010100_00	Chaney Creek	7.43	R	3	2014	X	X				X	X		X						
OK410600010110_00	Academy Creek	2.19	R	3	2014	X	X				X	X		X						
OK410600010120_00	Banty Spring Creek	3.66	R	3	2014	X	X				X	X		X						
OK410600010130_00	Little Creek	2.34	R	3	2014	X	X				X	X		X						
OK410600010140_00	Caddo Creek	13.96	R	5a	2014	F	F				N	X		I						
OK410600010150_00	Rock Creek	4.47	R	3	2014	X	X				X	X		X						
OK410600010160_00	Mail Rider Creek	5.62	R	3	2014	X	X				X	X		X						
OK410600010170_00	Rocky Branch	3.49	R	3	2014	X	X				X	X		X						
OK410600010180_00	Elm Creek	3.67	R	3	2014	X	X				X	X		X						
OK410600010190_00	Puckett Creek	2.77	R	3	2014	X	X				X	X		X						
OK410600010200_00	J-N Creek	8.04	R	3	2014	X	X				X	X		X						

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OK410600010210_00	North Branch	3.26	R	3	2014	X	X				X	X		X						
OK410600010220_00	Rock Creek	2.43	R	3	2014	X	X				X	X		X						
OK410600010230_00	Cedar Creek	3.59	R	3	2014	X	X				X	X		X						
OK410600010240_00	Dude Creek	4.01	R	3	2014	X	X				X	X		X						
OK410600010250_00	Sandy Creek	3.41	R	3	2014	X	X				X	X		X		X				
OK410600010260_00	Kanola Creek	10.84	R	3	2014	X	X				X	X		X						
OK410600010270_00	Harrington Creek	7.05	R	3	2014	X	X				X	X		X						
OK410600010280_00	Thompson Creek	5.16	R	3	2014	X	X				X	X		X						
OK410600010290_00	Blue River	15.63	R	3	2014	X	X				X	X		X		X				
OK410600010300_00	Mineral Bayou	15.53	R	5a	2014	F	F				N	X		I			F			
OK410600010310_00	Chuckwa Creek	6.03	R	3	2014	X	X				X	X		X						
OK410600010320_00	Johnson Creek	4.89	R	3	2014	X	X				X	X		X						
OK410600010330_00	Simon Creek	6.09	R	3	2014	X	X				X	X		X						
OK410600010340_00	Little Blue River	7.71	R	3	2014	X	X				X	X		X		X				
OK410600010350_00	Bois d' Arc Creek	8.39	R	3	2014	X	X				X	X		X						
OK410600010360_00	McClellan Creek	3.41	R	3	2014	X	X				X	X		X						
OK410600010370_00	Reeder Creek	7.81	R	3	2014	X	X				X	X		X						
OK410600010380_00	Cooper Creek	3.46	R	3	2014	X	X				X	X		X						
OK410600010390_00	Horse Creek	5.40	R	3	2014	X	X				X	X		X						
OK410600010440_00	Durant Lake	287	L	3	2016	X	X				X	X		X						
OK410600020010_00	Blue River	16.75	R	3	2014	X	X				X	X		X		X				
OK410600020010_10	Blue River	12.18	R	3	2014	X	X			X		X		X		X		✓		

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OK410600020010_20	Blue River	40.10	R	3	2014	X	X	X				X		X		X		✓		
OK410600020020_00	Sandy Creek	15.35	R	5a	2014	I	F				F	X		N		X				
OK410600020030_00	Little Sandy Creek	8.24	R	3	2014	X	X				X	X		X						
OK410600020040_00	Brushy Creek	1.77	R	3	2014	X	X				X	X		X						
OK410600020050_00	Peter Sandy Creek	5.14	R	3	2014	I	I				I	X		X						
OK410600020060_00	Pecan Creek	5.21	R	3	2014	X	X				X	X		X						
OK410600020070_00	Diamond Spring Branch	4.76	R	3	2014	X	X				X	X		X						
OK410600020080_00	Little Pecan Creek	3.94	R	3	2014	X	X				X	X		X						
OK410600020090_00	Little Blue Creek	12.09	R	3	2014	X	X				X	X		X						
OK410600020100_00	Little West Blue Creek	19.08	R	2	2014	F	F				F	X		I						
OK410600020120_00	Limestone Creek	5.44	R	3	2014	X	X				X	X		X						
OK410700000010_00	Red River	14.79	R	3	2014	X	X				X	X		X		X				
OK410700000010_10	Red River	22.24	R	3	2014	X	X				X	X		X		X				
OK410700000010_20	Red River	3.62	R	3	2014	X	X				X	X		X		X				
OK410700000010_30	Red River	2.18	R	3	2014	X	X				X	X		X		X				
OK410700000010_40	Red River	17.57	R	2	2014	I	F				I	F		I		F				
OK410700000020_00	Rice Creek	6.50	R	3	2014	X	X				X	X		X						
OK410700000030_00	Tuklo Creek	11.02	R	3	2014	X	X				X	X		X						
OK410700000040_00	Island Bayou	41.20	R	5a	2014	I	N				I	X			I		F			
OK410700000050_00	Brushy Creek	3.86	R	3	2014	X	X				X	X		X						
OK410700000060_00	Jones Creek	6.26	R	3	2014	X	X				X	X		X						
OK410700000070_00	Wolf Creek	9.45	R	3	2014	X	X				X	X		X						

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OK410700000080_00	Long Creek	9.44	R	3	2014	X	X				X	X		X						
OK410700000090_00	Sassafras Creek	12.50	R	3	2014	X	X				X	X		X						
OK410700000100_00	Caney Creek	18.67	R	3	2014	X	X				X	X		X						
OK410700000120_00	Caney Creek	4.47	R	3	2014	X	X				X	X		X						
OK410700000130_00	Moore Creek	6.23	R	3	2014	X	X				X	X		X						
OK410700000140_00	Brown Creek	15.18	R	3	2014	X	X				X	X		X						
OK410700000150_00	Chico Creek	2.96	R	3	2014	X	X				X	X		X						
OK410700000160_00	Muddy Creek	4.43	R	3	2014	X	X				X	X		X						
OK410700000170_00	Pepper Creek	4.23	R	3	2014	X	X				X	X		X						
OK410700000180_00	Sand Creek	8.44	R	3	2014	X	X				X	X		X						
OK410700000190_00	Sandy Creek	5.80	R	3	2014	X	X				X	X		X						
OK410700000200_00	Greenwood Creek	2.67	R	3	2014	X	X				X	X		X						
OK410700000210_00	Webb Creek	7.13	R	3	2014	X	X				X	X		X						
OK410700000220_00	Rock Creek	3.48	R	3	2014	X	X				X	X		X						
OK410700000230_00	Eastman Creek	7.19	R	2	2015	I	F				I	X		I						
OK410700000240_00	Kodac Creek	4.43	R	3	2014	X	X				X	X		X						
OK410700000250_00	Sandy Creek	10.09	R	3	2014	X	X				X	X		X		X				
OK410700000255_00	Sandy Creek, Unnamed Tributary of	1.01	R	3	2017	X	X		X						X					
OK410700000260_00	Sand Creek	12.01	R	2	2014	F	F				F	X		I						
OK410700000270_00	Little Sand Creek	8.81	R	3	2014	X	X				X	X		X						

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OK520500010020_00	Eufaula Lake, N. Canadian River Arm	20,680	L	5a	2012	F	F				N	X		I		I				
OK520500010030_00	Carr Creek	6.35	R	3	2017	X	X				X	X		X						
OK520500010040_00	Nellie Creek	3.60	R	3	2017	X	X				X	X		X						
OK520500010050_00	Fivemile Creek	2.31	R	3	2017	X	X				X	X		X						
OK520500010060_00	Possum Creek	2.91	R	3	2017	X	X				X	X		X						
OK520500010070_00	Coon Creek	5.07	R	3	2017	X	X				X	X		X						
OK520500010100_00	Fame Branch	3.37	R	3	2017	X	X				X	X		X						
OK520500010110_10	Canadian River, North	48.39	R	5a	2012	I	F				N	N		N		I				
OK520500010120_00	Limbo Creek	12.67	R	3	2012	I	I				I	X		X						
OK520500010130_00	Gar Creek	5.34	R	2	2012	I	F				I	X		X		I				
OK520500010140_00	Piney Creek	3.52	R	3	2017	X	X				X	X		X						
OK520500010150_00	Fish Creek	11.00	R	3	2017	X	X				X	X		X						
OK520500010151_00	Dustin Creek	1.44	R	3	2017	X	X				X	X		X						
OK520500010152_00	Dustin Lake	27	L	3	2016	X	X				X	X		X		X				
OK520500010160_00	Parsley Creek	8.04	R	3	2017	X	X				X	X		X						
OK520500010170_00	Bad Creek	19.11	R	5a	2012	F	F				F	X		N		I				
OK520500010180_00	Salt Creek	4.90	R	3	2017	X	X				X	X		X						
OK520500010190_00	Rock Creek	4.71	R	3	2017	X	X				X	X		X						
OK520500010200_00	Alabama Creek	14.20	R	5a	2012	I	N				F	X		N		I				
OK520500010210_00	Weleetka Creek	2.96	R	3	2017	X	X				X	X		X		X				✓
OK520500010220_00	Weleetka City Lake	61	L	3	2014	X	X				X	X		X		X				✓
OK520500010240_00	Dale Turner Lake!	49	L	3	2016	X	X				X	X		X						

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OK520500010242_00	Clearview Creek	2.29	R	5a	2017	I	N				X	X		X						
OK520500010260_00	Salt Creek	3.01	R	3	2017	X	X				X	X		X						
OK520500010270_00	Wetumka City Lake	169	L	5a	2014	F	F				I	X		N		X				
OK520500010280_00	Flat Rock Creek	9.72	R	2	2017	I	I				F	X		X		X				
OK520500010290_00	Battle Creek	4.21	R	2	2012	I	X				I	X		F						
OK520500010300_00	Airport Lake	100	L	3	2016	X	X				X	X		X						
OK520500020010_00	Wewoka Creek	42.99	R	5a	2012	F	N		F			X		N		I	F			
OK520500020020_00	Greasy Creek	18.51	R	5a	2017	F	F				N	X		I						
OK520500020026_00	Cheyarha Creek	1.76	R	2	2012	I	F				I	X		X		I				
OK520500020027_00	Cheyarha Creek, East	3.01	R	5c	2017	I	N				I	X		X		I				
OK520500020028_00	Cheyarha Creek, West	2.92	R	3	2012	I	I				I	X		X		I				
OK520500020030_00	Fish Creek	8.72	R	2	2012	I	F				I	X		X		I				
OK520500020035_00	Wetumka Creek!	2.39	R	3	2017	X	X		X			X			X					
OK520500020040_00	Brooks Lake	120	L	3	2016	X	X				X	X		X						
OK520500020050_00	Ranche Creek	10.83	R	3	2017	X	X				X	X		X						
OK520500020060_00	Graves Creek	13.50	R	3	2017	I	I				I	X		X		I				
OK520500020070_00	Elm Creek	7.90	R	3	2017	X	X				X	X		X						
OK520500020080_00	Grief Creek	7.10	R	3	2017	X	X				X	X		X						
OK520500020090_00	Little Wewoka Creek	20.44	R	5a	2012	I	F				F	X		N		I				
OK520500020100_00	Stanley Creek	3.65	R	3	2017	X	X				X	X		X						
OK520500020110_00	Stanley Lake	23	L	3	2016	X	X				X	X		X						
OK520500020120_00	Long George Creek	10.88	R	3	2017	X	X				X	X		X						

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OK520500020130_00	Yeager Creek	7.97	R	3	2017	X	X				X	X		X						
OK520500020140_00	Tiger Creek	7.54	R	3	2017	X	X				X	X		X						
OK520500020150_00	Jacobs Creek	9.33	R	3	2017	X	X				X	X		X						
OK520500020160_00	Cooter Creek	9.22	R	3	2017	X	X				X	X		X						
OK520500020170_00	Coon Creek	1.71	R	3	2017	X	X				X	X		X		X				✓
OK520500020180_00	Coon Creek	3.90	R	3	2012	I	I				I	I		X		I				✓
OK520500020190_00	Wewoka Lake	371	L	5a	2016	N	F				N	X		F		N				✓
OK520500020200_00	Tiger Creek	3.07	R	3	2017	X	X				X	X		X						
OK520500020210_00	Tiger Creek	3.77	R	3	2017	I	I				I	X		X		I				
OK520500020220_00	Sportsman Lake	354	L	5a	2012	N	F				N	X		F		F				
OK520500020230_00	Carter Creek	2.70	R	5c	2012	F	N				I	X		X		I				
OK520500020230_10	Carter Creek	4.23	R	2	2012	X	F				I	X		X		I				
OK520500020240_00	Wewoka Creek	5.36	R	5a	2012	F	X		N			I		X			F			
OK520500020240_10	Wewoka Creek	10.27	R	5a	2017	I	N		X			X			X	N				
OK520500020250_00	Magnolia Creek	4.81	R	5c	2017	F	N				I	X		X		I				
OK520500020260_00	Salt Cedar Creek	1.33	R	5c	2012	I	N				I	X		X		I				
OK520500020260_10	Salt Cedar Creek	0.86	R	3	2017	X	X				X	X		X						
OK520500020260_20	Salt Cedar Creek	1.06	R	5c	2017	I	N				I	X		X		I				
OK520500020270_00	Wewoka Creek, Trib A!	5.26	R	5c	2017	I	N				I	X		X		I				
OK520500020280_00	Oakwood Cemetery Creek!	6.69	R	5c	2017	I	N		X			X		X	X					
OK520500020290_00	Wewoka Creek, Unnamed Tributary of	1.48	R	3	2017	X	X		X						X					
OK520510000010_00	Canadian River, North	36.94	R	5a	2012	I	F				N	N		N		F				

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OK520510000010_10	Canadian River, North	35.76	R	3	2017	X	X				X	X		X		X				
OK520510000020_00	Cohee Creek	7.05	R	3	2017	X	X				X	X		X						
OK520510000030_00	Cohee Lake	80	L	3	2016	X	X				X	X		X						
OK520510000040_00	Okemah Creek	12.94	R	3	2017	I	I				I	X		X						
OK520510000050_00	Sand Creek	15.03	R	3	2017	I	I		X			X			X					
OK520510000053_00	Sand Creek, Unnamed Tributary of	4.31	R	3	2017	X	X		X			X			X					
OK520510000055_00	Boley Creek!	5.86	R	3	2017	X	X		X			X			X					
OK520510000060_00	Rock Creek	8.47	R	3	2017	X	X				X	X		X						
OK520510000070_00	Fiftytwo Creek	3.94	R	3	2017	X	X				X	X		X						
OK520510000080_00	Gar Creek	12.60	R	3	2017	X	X				X	X		X						
OK520510000090_00	Snake Creek	7.63	R	3	2017	I	I				I	X		X		I				
OK520510000095_00	Turkey Creek, Trib A!	4.26	R	5c	2012	F	N				F	X		X		F				
OK520510000100_00	Turkey Creek	16.42	R	5a	2017	F	N				N	X		I		F				
OK520510000105_00	Earlsboro Creek	5.13	R	5c	2012	I	N				X	X		X		I				
OK520510000110_00	Canadian River, North	3.04	R	5a	2012	I	I				N	I		N		X				
OK520510000110_05	Canadian River, North	21.91	R	5a	2012	F	N				N	N		I			F			
OK520510000110_10	Canadian River, North	20.31	R	5a	2012	I	N				N	N		N			F			
OK520510000110_20	Canadian River, North	31.54	R	5a	2012	X	X				N	X		N			F			
OK520510000120_00	Shan Creek	7.92	R	3	2012	X	X		X			X			X					
OK520510000130_00	Deer Creek	6.70	R	2	2012	I	I				I	X		X			F			
OK520510000140_00	Painter Creek	5.01	R	3	2017	X	X				X	X		X						
OK520510000150_00	Stamp Dance Creek	2.93	R	3	2017	X	X				X	X		X						

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OK520510000160_00	Squaw Creek	2.59	R	3	2017	X	X				X	X		X						
OK520510000170_00	Rock Creek	10.29	R	3	2017	X	X				X	X		X						
OK520510000180_00	Rock Creek	5.80	R	3	2017	X	X				X	X		X						
OK520510000190_00	Squirrel Creek	10.04	R	3	2017	X	X				X	X		X						
OK520510000200_00	Tecumseh Creek	0.93	R	3	2017	X	X				X	X		X		X				✓
OK520510000210_00	Tecumseh Creek	1.83	R	3	2017	X	X				X	X		X		X				✓
OK520510000220_00	Tecumseh Lake	127	L	5a	2012	N	F				N	X		F		F				✓
OK520510000230_00	Lost Creek	5.01	R	3	2017	X	X				X	X		X						
OK520510000240_00	Deer Creek	3.73	R	3	2017	X	X				X	X		X						
OK520510000250_00	Deer Creek, South	7.23	R	3	2017	X	X				X	X		X		X				✓
OK520510000255_00	Wes Watkins Reservoir	1,132	L	2	2012	F	F				I	X		F		F				
OK520510000280_00	Shawnee Twin Lake #1 (South)	1,336	L	2	2014	F	F				I	X		F		F				✓
OK520510000290_00	Deer Creek, South	4.40	R	5a	2017	N	I				N	X		I		N				✓
OK520510000300_00	Shawnee Twin Lake #2 (North)	1,100	L	5a	2012	F	F				N	X		F		F				✓
OK520510000310_00	Deer Creek, North	9.55	R	3	2017	X	X				X	X		X		X				
OK520510000320_00	Canadian River, North, Unnamed Trib	1.77	R	3	2017	X	X		X						X					
OK520510000330_00	Horseshoe Oxbow Lake	450	L	3	2016	X	X				X	X		X						
OK520510000340_00	Church Trib!	3.47	R	3	2017	X	X				X	X		X						
OK520510000390_00	Squirrel Creek, Unnamed Tributary of	4.85	R	3	2017	X	X				X	X		X						
OK520520000010_00	Canadian River, North	3.85	R	5a	2012	I	F				N	N		N			F			
OK520520000010_10	Canadian River, North	13.35	R	5a	2012	X	X				I	X		N			F			
OK520520000010_20	Canadian River, North	13.71	R	2	2012	I	F				F	F		F			F			

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OK520520000010_30	Canadian River, North	4.55	R	5a	2012	X	X				N	X		N			F			
OK520520000010_40	Canadian River, North	9.78	R	5a	2012	X	X				N	X		N			F			
OK520520000010_50	Canadian River, North	4.25	R	3	2012	X	X				X	X		X		X				
OK520520000020_00	Harrah Creek	6.37	R	3	2017	X	X				X	X		X						
OK520520000030_00	Choctaw Creek	9.76	R	5a	2012	I	I		N			X			I		F			
OK520520000035_00	Choctaw Creek, Unnamed Tributary of	2.31	R	3	2017	X	X		X					X						
OK520520000040_00	Jones Creek	4.19	R	3	2017	X	X				X	X		X						
OK520520000050_00	Silver Creek	3.22	R	3	2017	X	X				X	X		X						
OK520520000060_00	Crutcho Creek	3.55	R	5a	2012	I	I				N	X		I						
OK520520000070_00	Crutcho Creek	3.85	R	5a	2012	I	F				N	X		N						
OK520520000070_10	Crutcho Creek	2.42	R	2	2017	I	F		X			X			X					
OK520520000080_00	Soldier Creek	6.76	R	3	2017	X	X				X	X		X						
OK520520000090_00	Crutcho Creek	3.14	R	5a	2012	N	X		N			X			X					
OK520520000110_00	Cherry Creek	7.31	R	5a	2012	I	I		N			I			X					
OK520520000140_00	Thompson Lake	100	L	3	2016	X	X				X	X		X						
OK520520000150_00	Crooked Oak Creek	6.98	R	5a	2012	N	N				N	X		N		N				
OK520520000160_00	Lightning Creek	7.50	R	3	2012	I	X				I	X		X						
OK520520000170_00	Brock Creek	5.66	R	3	2017	I	X				I	X		X						
OK520520000190_00	Crutcho Creek, Unnamed Tributary of	3.22	R	3	2017	X	X				X	X		X						
OK520520000210_00	Canadian River, North	1.07	R	5a	2012	N	X				N	X		N		X				
OK520520000230_00	Campbell Creek	5.89	R	5a	2017	I	N				N	X		I						
OK520520000240_00	Mustang Creek	9.16	R	5a	2012	I	I				N	X		N						

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OK520520000250_00	Canadian River, North	6.52	R	5a	2012	I	F				N	N		F		I				
OK520520000260_00	Overholser Lake	1,500	L	5a	2014	N	N				N	X		F		F				
OK520520000270_00	Ramsey Lake	20	L	3	2016	X	X				X	X		X						
OK520520000280_00	Bluff Creek Canal (Hefner L)	2.39	R	3	2017	X	X				X	X		X						
OK520520000290_00	Soldier Creek, Unnamed Trib of	1.20	R	3	2017	X	X				X	X			X					
OK520520000300_00	West Ramp Branch!	0.61	R	3	2017	X	X				X	X		X						
OK520520000310_00	3001 Branch!	1.30	R	3	2017	X	X				X	X		X						
OK520520000320_00	Taxiway Branch!	1.89	R	3	2017	X	X				X	X		X						
OK520520000330_00	Kuhlman Creek	1.95	R	3	2017	X	X				X	X		X						
OK520520000340_00	Albert High School Creek!	2.58	R	3	2017	X	X				X	X		X						
OK520520000350_00	Airport Heights Creek!	4.26	R	5a	2017	I	X				N	X		I						
OK520530000010_00	Canadian River, North	10.24	R	5a	2012	X	F				F	X		N		X				
OK520530000010_10	Canadian River, North	105.34	R	4a	2014	I	F				F	F		N		F				
OK520530000020_00	Wilshire Creek	1.31	R	3	2017	X	X				X	X		X						
OK520530000030_00	Shell Creek	9.48	R	5a	2012	F	F				N	X		N		F				
OK520530000040_00	Purcell Creek	11.75	R	3	2017	I	I				I	X		X		X				
OK520530000050_00	Sixmile Creek	15.96	R	3	2017	I	X				I	X		X		X				
OK520530000060_00	Fourmile Creek	4.77	R	3	2017	X	X				X	X		X						
OK520530000070_00	Fourmile Creek	3.04	R	3	2017	X	X				X	X		X						
OK520530000080_00	El Reno Lake	170	L	5a	2014	I	F				N	X		F						
OK520530000090_00	Target Creek	6.77	R	3	2017	X	X				X	X		X						
OK520530000100_00	Rolla Lake	80	L	3	2016	X	X				X	X		X						

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OK520530000110_00	Sixmile Creek	13.62	R	3	2017	I	I				I	X		X						
OK520530000120_00	Laughlin Lake Creek	2.77	R	3	2017	X	X				X	X		X						
OK520530000130_00	Laughlin Lake	45	L	3	2016	X	X				X	X		X						
OK520530000140_00	Horse Creek	7.96	R	3	2017	X	X				X	X		X						
OK520530000150_00	Relay Creek	8.38	R	2	2017	X	X				F	X		X						
OK520530000160_00	Chicken Creek	7.48	R	3	2017	X	X				X	X		X						
OK520530000170_00	Weavers Creek	8.24	R	3	2017	X	X				X	X		X						
OK520530000180_00	Ninemile Creek	7.78	R	3	2017	I	I				I	X		X						
OK520530000190_00	Minnehaha Creek	7.90	R	5a	2017	I	X				N	X			X	X				
OK520530000200_00	Canadian River, North, Unnamed Trib	5.34	R	3	2017	X	X		X						X					
OK520530000270_00	Perimeter Creek!	3.73	R	5a	2017	N	I				N	X		X						
OK520530000280_00	Neighborhood Creek!	2.88	R	3	2017	X	X				X	X		X						
OK520600010010_00	Canadian River	37.50	R	5a	2012	I	N				N	N		N		I				
OK520600010020_00	Arbeca Creek	5.68	R	3	2017	X	X				X	X		X						
OK520600010030_00	Cotton Creek	6.97	R	3	2017	X	X				X	X		X						
OK520600010040_00	Clear Creek	5.96	R	3	2012	I	I				I	X		X		I				
OK520600010050_00	Barret Branch	2.59	R	3	2017	X	X				X	X		X						
OK520600010060_00	Factory Creek	6.32	R	4a	2012	F	F				I	X		N		I				
OK520600010070_00	Rock Creek	3.34	R	3	2012	I	I				I	X		X		I				
OK520600010080_00	Jumper Creek	5.68	R	2	2012	I	I				I	X		X			F			
OK520600010090_00	Jumper Creek	3.11	R	2	2017	I	I				I	X		X			F			
OK520600010100_00	Konawa Lake	1,350	L	2	2012	F	F				F	X		I		X	F			

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OK520600010110_00	Negro Creek	5.10	R	3	2017	X	X				X	X		X						
OK520600010120_00	Canadian River, Unnamed Tributary of	3.62	R	3	2017	X	X		X						X					
OK520600020010_00	Canadian River	24.35	R	5b	2017	F	I				N	X		X		I				
OK520600020020_00	Turkey Creek	5.46	R	3	2017	X	X				X	X		X						
OK520600020030_00	Grayson Creek	4.32	R	3	2017	X	X				X	X		X						
OK520600020040_00	Buckhorn Creek	5.30	R	3	2017	I	I				I	X		X		I				
OK520600020050_00	Beebe Creek	3.72	R	2	2012	I	F				I	X		X		I				
OK520600020060_00	Slush Pit Creek	2.68	R	3	2017	X	X				X	X		X						
OK520600020070_00	Maxwell Creek	3.84	R	3	2017	X	X				X	X		X						
OK520600020080_00	Reserve Pit Creek	1.87	R	3	2017	X	X				X	X		X						
OK520600020100_00	Leach Field Creek	1.60	R	3	2017	X	X				X	X		X						
OK520600020110_00	Hutchinson Creek	3.11	R	3	2017	X	X				X	X		X						
OK520600020120_00	Young Creek	4.02	R	3	2017	X	X				X	X		X						
OK520600020130_00	Preacher Creek	5.32	R	3	2017	X	X				X	X		X						
OK520600020140_00	Big Creek	10.56	R	3	2017	X	X				X	X		X						
OK520600020150_00	Chism Creek	4.86	R	3	2017	X	X				X	X		X						
OK520600020160_00	Cat Creek	4.00	R	2	2017	I	X				F	X		X						
OK520600020165_00	Cat Creek, Unnamed Tributary of	0.96	R	3	2017	X	X		X						X					
OK520600020170_00	Julian Creek	5.19	R	5c	2017	F	I				I	X		N						
OK520600020180_00	Constantine Creek	7.19	R	3	2017	X	X				X	X		X						
OK520600020190_00	Pond Creek	19.58	R	2	2012	I	F				I	X		X		I				
OK520600020200_00	Hog Creek	6.01	R	3	2012	X	X				X	X		X						

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OK520600020205_00	Red Springs Creek	1.04	R	5a	2012	F	N				I	X		X		I				
OK520600020210_00	Jumper Creek	2.26	R	3	2012	I	I				I	X		X		I				
OK520600020220_00	Pond Creek, East	4.44	R	3	2012	I	I				I	X		X						
OK520600020230_00	Helsel Creek	2.49	R	3	2012	I	I				I	X		X		I				
OK520600020240_00	Dahlgren Lake	40	L	3	2016	X	X				X	X		X						
OK520600030010_00	Canadian Sandy Creek	37.70	R	5a	2012	I	F				F	X		N		I				
OK520600030020_00	Little Sandy Creek	8.56	R	5a	2012	I	X				N	X		X			F			
OK520600030030_00	Spring Brook	28.44	R	2	2012	I	F				I	X		I		I				
OK520600030040_00	Black Creek	6.17	R	3	2017	X	X				X	X		X						
OK520600030050_00	Rodtky Creek (Bodky)	8.71	R	3	2017	X	X				X	X		X		X				
OK520600030060_00	Days Creek	1.56	R	3	2017	X	X				X	X		X						
OK520600030070_00	Days Creek, East	7.03	R	3	2017	X	X				X	X		X						
OK520600030080_00	Days Creek, West	5.56	R	3	2017	X	X				X	X		X						
OK520600030090_00	Coon Creek	5.60	R	3	2017	X	X				X	X		X						
OK520600030100_00	Burris Creek	6.98	R	3	2017	X	X				X	X		X						
OK520600030110_00	Coon Creek	4.72	R	3	2017	X	X				X	X		X						
OK520600030120_00	Little Canadian Sandy Creek	7.47	R	3	2017	X	X				X	X		X		X				
OK520610010010_00	Canadian River	11.93	R	3	2015	X	X				X	X		X						
OK520610010010_05	Canadian River	32.65	R	5a	2012	I	F				N	N			N					
OK520610010010_10	Canadian River	11.48	R	3	2015	X	X				X	X			X					
OK520610010010_20	Canadian River	6.89	R	3	2015	X	X				X	X			X					
OK520610010020_00	Buckhead Creek	15.44	R	3	2015	X	X				X	X		X		X				

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OK520610010030_00	Little Buckhead Creek	4.79	R	3	2015	X	X				X	X		X						
OK520610010060_00	Bell Mere Creek	0.93	R	3	2015	X	X				X	X		X						
OK520610010070_00	Bell Mere Lake	13	L	3	2016	X	X				X	X		X						
OK520610010080_00	Willow Creek	9.06	R	5a	2015	F	F				N	X		N						
OK520610010090_00	Willow Creek, West	6.42	R	3	2015	X	X				X	X		X						
OK520610010100_00	Willow Creek, East	3.33	R	3	2015	X	X				X	X		X						
OK520610010120_00	Chouteau Creek	9.10	R	3	2015	X	X				X	X		X						
OK520610010130_00	Dripping Springs Creek	4.79	R	3	2015	X	X				X	X		X						
OK520610010140_00	Boone Creek	1.20	R	3	2015	X	X				X	X		X						
OK520610010150_00	Boone Creek, East Branch	2.87	R	3	2015	X	X				X	X		X						
OK520610010160_00	Boone Creek, West Branch	3.40	R	3	2015	X	X				X	X		X						
OK520610010180_00	Bishop Creek	7.82	R	5a	2015	I	I				N	X		I						
OK520610010190_00	Imhoff Creek	4.08	R	3	2015	X	X				X	X		X						
OK520610010200_00	Merkle Creek	3.16	R	2	2015	I	F				I	X		X		I				
OK520610010205_00	Brookhaven Creek	4.35	R	3	2015	X	X				X	X		X						
OK520610010210_00	Pond Creek	7.62	R	3	2015	I	I				I	X		X		X				
OK520610010215_00	Tim's Creek	3.12	R	3	2015	X	X		X			X			X					
OK520610010220_00	Lost Creek	2.04	R	3	2015	X	X				X	X		X						
OK520610010230_00	Cow Creek	6.71	R	5a	2012	I	I				N	I		X		I				
OK520610020010_00	Canadian River	19.62	R	3	2015	X	X				X	X			X					
OK520610020020_00	Coal Creek	6.66	R	3	2015	X	X				X	X		X						
OK520610020030_00	Worley Creek	9.10	R	3	2015	X	X				X	X		X						

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OK520610020040_00	East Creek	10.93	R	3	2015	X	X				X	X		X						
OK520610020050_00	Bennett Creek	4.03	R	3	2015	X	X				X	X		X		X				
OK520610020060_00	Foreman Creek	4.77	R	5a	2015	I	I				N	X		I						
OK520610020070_00	Dry Creek	8.37	R	5a	2015	N	I				N	X		I		N				
OK520610020080_00	Store Creek	5.63	R	3	2015	X	X				X	X		X		X				
OK520610020090_00	West Creek	5.44	R	3	2015	X	X		X			X			X					
OK520610020100_00	Snake Creek	6.63	R	3	2015	X	X				X	X		X						
OK520610020110_00	Beaver Creek	8.78	R	3	2015	X	X				X	X		X						
OK520610020120_00	Buggy Creek	26.51	R	4a	2012	F	F				F	X		N			F			
OK520610020130_00	Fisher Creek	3.10	R	3	2015	X	X				X	X		X						
OK520610020140_00	Bullet Creek	3.30	R	3	2015	X	X				X	X		X						
OK520610020150_00	Canadian River	2.92	R	3	2015	X	X				X	X			X					
OK520610020150_10	Canadian River	36.25	R	5a	2012	F	F				N	N		N			F			
OK520610020155_00	Canadian River, Unnamed Tributary of	3.46	R	3	2015	X	X		X						X					
OK520610020160_00	Arapaho Creek	8.43	R	3	2015	X	X				X	X		X						
OK520610020165_00	Trib8!	5.97	R	5a	2018	F	I				N	I		X						
OK520610020170_00	Tall Bear Canyon Creek	4.73	R	3	2015	X	X				X	X		X						
OK520610020180_00	Cedar Lake Creek	2.08	R	3	2015	X	X				X	X		X						
OK520610020190_00	Cedar Lake	62	L	3	2016	X	X				X	X		X						
OK520610020200_00	Powder Face Creek	7.62	R	3	2015	I	I				I	X		X						
OK520610020210_00	Canyon View Creek	7.08	R	3	2015	X	X				X	X		X						
OK520610020220_00	Fisher Canyon Creek	5.68	R	3	2015	X	X				X	X		X						

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OK520610030010_00	Walnut Creek	28.44	R	5a	2012	I	F				F	X		N						
OK520610030040_00	Purcell Lake	150	L	2	2016	F	F				I	X		I						
OK520610030050_00	Red Blanket Creek	5.31	R	3	2015	X	X				X	X		X						
OK520610030060_00	Sandy Creek	6.06	R	3	2015	X	X				X	X		X						
OK520610030070_00	Dibble Creek	9.37	R	3	2015	X	X				X	X		X						
OK520610030080_00	Walnut Creek, North Fork	16.84	R	5a	2015	F	F				N	X		N		I				
OK520610030090_00	Stinson Creek	5.71	R	3	2015	X	X				X	X		X						
OK520610030100_00	Bridge Creek	6.44	R	3	2015	X	X				X	X		X						
OK520610030110_00	Buffalo Creek	5.09	R	2	2015	X	X				F	X		X						
OK520610030115_00	Walnut Creek, Unnamed Trib of	2.98	R	3	2015	X	X				X	X		X						
OK520610030120_00	Blanchard Creek	4.33	R	3	2015	X	X				X	X		X						
OK520610030130_00	Airstrip Branch!	3.44	R	2	2015	I	F				I	X		X						
OK520620010010_00	Canadian River	42.75	R	2	2015	I	I				I	X		I			F			
OK520620010020_00	Lumpmouth Creek	9.50	R	3	2015	I	I				I	X		X						
OK520620010030_00	Bridgeport Creek, East	6.54	R	3	2015	X	X				X	X		X						
OK520620010040_00	Fire Canyon Creek	2.34	R	3	2015	X	X				X	X		X						
OK520620010050_00	Bridgeport Creek, West	6.81	R	3	2015	X	X				X	X		X						
OK520620010060_00	Lariat Creek	10.71	R	5a	2015	I	X				N	X		X						
OK520620010070_00	White Canyon Creek	4.72	R	3	2015	X	X				X	X		X						
OK520620010090_00	American Horse Canyon Creek (American Hors	4.08	R	3	2015	X	X				X	X		X						
OK520620010100_00	American Horse Lake	100	L	2	2014	F	F				I	X		F						
OK520620010110_00	Squaw Creek	8.60	R	3	2015	X	X				X	X		X						

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OK520620010120_00	Bear Creek	6.29	R	4a	2015	F	F				I	X		N						
OK520620010130_00	Whirlwind Creek	9.20	R	3	2015	X	X				X	X		X						
OK520620010140_00	Fay Creek, East	5.80	R	3	2015	X	X				X	X		X						
OK520620010150_00	Thomas Creek	5.03	R	3	2015	X	X				X	X		X						
OK520620010160_00	Fay Creek, West	5.43	R	3	2015	X	X		X			X			X					
OK520620010170_00	Canadian River, Unnamed Trib of	4.34	R	3	2015	X	X				X	X		X						
OK520620020010_00	Canadian River	37.78	R	5a	2012	F	N				F	F		N			F			
OK520620020020_00	Rough Creek	12.03	R	3	2015	X	X				X	X		X						
OK520620020030_00	Big Baby Creek	8.76	R	3	2015	X	X				X	X		X						
OK520620020035_00	Yellow Bull Creek	4.49	R	3	2015	X	X				X	X		X						
OK520620020040_00	One Horse Creek	5.50	R	3	2015	X	X				X	X		X						
OK520620020050_00	Oakwood Creek	6.26	R	3	2015	X	X				X	X		X						
OK520620020060_00	Flanders Creek	4.54	R	5a	2015	I	N				I	X		X		I				
OK520620020070_00	Fiddlers Creek	6.89	R	5a	2018	I	N				I	X		X		I				
OK520620020080_00	Squirrel Creek	9.80	R	5a	2018	I	N				I	X		X		I				
OK520620020090_00	Trail Creek	14.34	R	5a	2012	F	N		F			X		N	X		F			
OK520620020100_00	Little Robe Creek	6.56	R	3	2015	I	I				I	X		X						
OK520620020110_00	Taloga Creek, East	6.72	R	3	2015	X	X				X	X		X						
OK520620020115_00	Aiko Creek	3.18	R	3	2015	X	X				X	X		X						
OK520620020120_00	Taloha Creek, West	7.78	R	3	2015	X	X				X	X		X						
OK520620020130_00	Hog Creek	3.07	R	3	2015	X	X				X	X		X						
OK520620020140_00	Rawhide Creek	12.45	R	2	2015	X	X				F	X		X						

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OK520620020150_00	Sand Creek	5.64	R	3	2015	X	X				X	X		X						
OK520620020160_00	Sorter Creek	8.80	R	3	2015	X	X				X	X		X						
OK520620030010_00	Canadian River	38.09	R	5a	2015	F	N				I	X		N			F			
OK520620030020_00	Lone Creek	13.18	R	5a	2012	F	N				F	X		N		I				
OK520620030030_00	Panther Creek	5.30	R	3	2015	X	X				X	X		X						
OK520620030040_00	Burnt Creek	6.89	R	3	2015	X	X				X	X		X						
OK520620030050_00	Red Trail Creek	7.74	R	5a	2015	F	N				I	X		N						
OK520620030060_00	Mouse Hollow Creek	3.30	R	3	2015	X	X				X	X		X						
OK520620030070_00	Bull Creek	6.15	R	3	2015	X	X				X	X		X						
OK520620030080_00	Teepee Creek	5.53	R	3	2015	I	X				I	X		X		I				
OK520620030090_00	Trail Creek	13.95	R	2	2015	X	X				X	X		X			F			
OK520620030100_00	Gyp Creek	7.79	R	3	2015	X	X				X	X		X		X				
OK520620030110_00	Red Creek	11.82	R	5a	2015	I	N				F	X		N		I				
OK520620030120_00	Powwow Creek	14.30	R	3	2015	X	X				X	X		X						
OK520620030130_00	Turkey Creek	15.96	R	3	2015	I	I				I	X		X		X				
OK520620030140_00	Kyser Creek	5.60	R	3	2015	X	X				X	X		X						
OK520620030150_00	Turkey Creek, South	8.19	R	3	2015	X	X				X	X		X		X				
OK520620030160_00	Oats Canyon Creek	2.84	R	3	2015	X	X				X	X		X						
OK520620030170_00	Spring Canyon Creek	2.25	R	3	2015	X	X				X	X		X						
OK520620030180_00	Piles Creek	3.42	R	3	2015	X	X				X	X		X						
OK520620030190_00	Harsha Canyon Creek	1.74	R	3	2015	X	X				X	X		X						
OK520620030200_00	Horse Canyon Creek (House Canyon)	3.44	R	3	2015	X	X				X	X		X						

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OK520620030210_00	Cinnamon Canyon Creek	2.53	R	3	2015	X	X				X	X		X						
OK520620040010_00	Canadian River	18.13	R	2	2015	X	X				X	X		X			F			
OK520620040020_00	Flying V Creek	11.74	R	3	2015	I	I				I	X		X						
OK520620040030_00	Devil's Creek	4.02	R	3	2015	X	X				X	X		X						
OK520620040040_00	Mott Creek	6.42	R	3	2015	X	X				X	X		X						
OK520620040050_00	Hackberry Creek	14.33	R	5a	2012	I	N				F	X		N		I				
OK520620040060_00	Sand Creek	6.99	R	3	2015	X	X				X	X		X						
OK520620040070_00	Richards Creek	3.11	R	3	2015	X	X				X	X		X						
OK520620040080_00	Hackberry Creek, West	2.05	R	3	2015	X	X				X	X		X						
OK520620040090_00	Black Bull Creek	3.08	R	3	2015	X	X				X	X		X						
OK520620040100_00	Coon Creek	3.75	R	3	2015	X	X				X	X		X						
OK520620040110_00	Spotted Deer Creek	2.54	R	3	2015	X	X				X	X		X						
OK520620040120_00	Sourdough Creek	5.59	R	3	2015	X	X				X	X		X						
OK520620040130_00	Boggy Creek	3.43	R	3	2015	X	X				X	X		X						
OK520620040140_00	Trail Branch	4.26	R	3	2015	X	X				X	X		X						
OK520620040150_00	S. A. Creek	5.03	R	3	2015	X	X				X	X		X						
OK520620040160_00	Bois d' Arc Creek	3.38	R	3	2015	X	X				X	X		X						
OK520620050010_00	Canadian River	33.95	R	2	2015	I	I				I	X		X			F			
OK520620050020_00	Wagon Creek	6.24	R	3	2015	X	X				X	X		X						
OK520620050030_00	West Creek	3.70	R	3	2015	X	X				X	X		X						
OK520620050040_00	Packsaddle Creek	1.79	R	3	2015	X	X				X	X		X						
OK520620050050_00	Packsaddle Lake	50	L	3	2016	X	X				X	X		X						

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OK520620050060_00	Cornell Creek	5.46	R	3	2015	X	X				X	X		X						
OK520620050070_00	Bull Creek	5.62	R	3	2015	X	X				X	X		X						
OK520620050080_00	Dugout Creek	6.80	R	3	2015	X	X				X	X		X						
OK520620050090_00	Cottonwood Creek	5.91	R	3	2015	X	X				X	X		X						
OK520620050100_00	Little Turkey Creek	3.79	R	3	2015	X	X				X	X		X						
OK520620050110_00	Mosquito Creek	4.63	R	3	2015	X	X				X	X		X		X				
OK520620050120_00	Mosquito Creek	6.56	R	2	2015	X	X		X			X			X		F			
OK520620050130_00	Arnett Creek	8.70	R	3	2015	X	X				X	X		X		X				
OK520620050140_00	Red Bluff Creek	12.30	R	3	2015	X	X				X	X		X		X				
OK520620050150_00	Red Bluff Creek, West	10.13	R	3	2015	X	X				X	X		X						
OK520620050160_00	Commission Creek	12.13	R	4a	2012	I	F				F	X		N		I				
OK520620050170_00	Coon Creek	0.62	R	3	2015	X	X				X	X		X						
OK520620050180_00	Hog Creek	7.56	R	3	2015	X	X				X	X		X						
OK520620050190_00	Coon Creek	7.36	R	3	2015	X	X				X	X		X						
OK520620050200_00	Lloyd Vincent Lake	160	L	2	2012	F	F				I	X		F						
OK520620050210_00	Hog Creek, West	3.76	R	3	2015	X	X				X	X		X						
OK520620050220_00	Little Robe Creek	10.71	R	3	2015	I	I				I	X		X						
OK520620060010_00	Deer Creek	55.58	R	4a	2012	I	F				F	X		N		F				
OK520620060020_00	Dead Woman Creek	5.95	R	3	2015	X	X				X	X		X						
OK520620060030_00	Cedar Canyon Creek	5.83	R	3	2015	X	X				X	X		X						
OK520620060040_00	Little Deep Creek	12.76	R	2	2015	I	I		F			X		I						
OK520620060050_00	Sportsman Creek	0.42	R	3	2015	X	X				X	X		X						

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OK520620060060_00	Sportsman Lake	100	L	3	2014	X	X				X	X		X						
OK520620060070_00	Little Deer Creek	14.83	R	3	2015	I	I				I	X		X		I				
OK520620060080_00	Horse Creek	17.64	R	3	2015	I	I				I	X		X		I				
OK520620060090_00	Putnam Creek	9.04	R	3	2015	X	X				X	X		X						
OK520700010020_00	Eufaula Lake, Canadian River Deep Fork	16,453	L	5a	2012	F	F				N	X		I		I				
OK520700010040_00	Onapa Lake (Checotah Municipal)	70	L	3	2016	X	X				X	X		X						
OK520700010080_00	Gentry Creek	9.64	R	5a	2012	F	F				N	X		N						
OK520700010090_00	Snake Creek	2.94	R	3	2012	X	X				X	X		X						
OK520700010110_00	Grave Creek	13.94	R	5c	2012	F	N				F	X		X		I				
OK520700010120_00	Canadian River, Deep Fork	33.41	R	3	2012	I	X				I	X		X		X				
OK520700010130_00	Wolf Creek	2.91	R	3	2012	X	X				X	X		X						
OK520700010140_00	Coal Creek	21.72	R	5a	2012	I	X				N	X			X		F			
OK520700010150_00	Nichols Creek	2.69	R	3	2017	X	X				X	X		X						
OK520700010160_00	Nichols Lake	25	L	3	2016	X	X				X	X		X						
OK520700010170_00	Wolf Creek	5.70	R	5a	2017	I	X				N	X		X		X				✓
OK520700010170_10	Wolf Creek	7.00	R	3	2017	X	X				X	X		X		X				✓
OK520700010180_00	Henryetta Lake	450	L	5a	2012	N	F				N	X		F		N				✓
OK520700010190_00	Moore Creek	9.91	R	3	2017	X	X				X	X		X						
OK520700010200_00	Flag Creek	1.59	R	3	2017	X	X				X	X		X						
OK520700010210_00	Flag Lake	100	L	3	2016	X	X				X	X		X						
OK520700010220_00	Montezuma Creek	22.39	R	5c	2017	I	X				N	X		X						
OK520700010230_00	Burgess Creek	7.23	R	2	2017	X	X				X	X		X			F			

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OK520700010240_00	Fourmile Creek	8.44	R	3	2017	X	X				X	X		X						
OK520700010250_00	Cossetta Creek (Cussetah)	13.28	R	3	2017	X	X				X	X		X						
OK520700010260_00	Long Branch	9.06	R	3	2017	X	X				X	X		X						
OK520700010270_00	Morris Creek	1.88	R	3	2017	X	X				X	X		X						
OK520700010280_00	Morris Lake	38	L	3	2016	X	X				X	X		X						
OK520700010290_00	Okmulgee Creek	14.69	R	2	2012	I	F				I	X		X		I				
OK520700010300_00	Honey Creek	7.02	R	3	2017	X	X				X	X		X						
OK520700010310_00	Cussetah Creek, Unnamed Trib of	3.36	R	3	2017	X	X		X						X					
OK520700020010_00	Canadian River, Deep Fork	4.26	R	3	2012	X	X				X	X		X		X				
OK520700020010_10	Canadian River, Deep Fork	39.26	R	5a	2012	F	F				N	N		N		I				
OK520700020020_00	Salt Creek	4.98	R	3	2017	X	X				X	X		X		X				
OK520700020040_00	Okmulgee Lake	668	L	5a	2014	N	F				N	X		F		I				✓
OK520700020050_00	Salt Creek	8.76	R	3	2017	X	X				X	X		X		X				✓
OK520700020060_00	Dripping Springs Lake (Salt Creek Structure 1)	1,150	L	5a	2012	N	F				N	X		F		F				✓
OK520700020070_00	Negro Creek	2.62	R	3	2017	X	X				X	X		X						
OK520700020080_00	Adams Creek	13.33	R	5a	2017	I	I				N	X		X		X				
OK520700020090_00	Flat Rock Creek	3.48	R	3	2017	X	X				X	X		X		X				
OK520700020100_00	Beggs Creek, West	4.13	R	2	2017	X	X				X	X		X			F			
OK520700020110_00	Beggs Lake	80	L	3	2016	X	X				X	X		X						
OK520700020120_00	Beggs Creek, East	3.23	R	3	2017	X	X				X	X		X						
OK520700020130_00	New Beggs Lake	56	L	3	2016	X	X				X	X		X		X				
OK520700020140_00	Little Nuyaka Creek	9.02	R	3	2017	X	X				X	X		X						

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OK520700020150_00	Salt Creek	12.59	R	5a	2017	I	N				N	X		X						
OK520700020155_00	Begger Creek!	3.61	R	5a	2012	F	N				I	X		X		I				
OK520700020160_00	Tiger Creek	7.09	R	3	2017	X	X				X	X		X						
OK520700020170_00	Checkerboard Creek	7.88	R	3	2017	X	X				X	X		X						
OK520700020180_00	Park Wheeler Creek	5.42	R	3	2017	X	X				X	X		X						
OK520700020200_00	Nuyaka Creek	21.72	R	5a	2017	I	I				N	X		X		X				
OK520700020210_00	Brier Creek	5.75	R	3	2017	X	X				X	X		X						
OK520700020220_00	Little Brier Creek	2.93	R	3	2017	X	X				X	X		X						
OK520700020230_00	Sixshooter Creek	7.37	R	3	2017	X	X				X	X		X						
OK520700020240_00	Cow Creek	6.62	R	3	2017	X	X				X	X		X						
OK520700020250_00	Philadelphia Creek	5.55	R	3	2017	X	X				X	X		X						
OK520700020260_00	Hopper Creek	6.74	R	3	2017	X	X				X	X		X						
OK520700020270_00	Buckeye Creek	2.22	R	3	2017	X	X				X	X		X		X				
OK520700020280_00	Buckeye Creek	12.93	R	3	2017	X	X				X	X		X		X				✓
OK520700020290_00	Okemah Lake	761	L	5a	2014	N	F				I	X		F		F				✓
OK520700020300_00	Yhola Creek	2.74	R	3	2017	X	X				X	X		X		X				✓
OK520700020310_00	Klutts Lake	40	L	3	2016	X	X				X	X		X						
OK520700030010_00	Canadian River, Deep Fork	46.83	R	2	2012	I	F				I	X		X		I				
OK520700030020_00	Walnut Creek	14.71	R	5a	2017	I	F				N	X		X						
OK520700030030_00	Little Walnut Creek	7.32	R	3	2017	X	X				X	X		X						
OK520700030040_00	Sandy Creek	5.21	R	3	2017	I	I				I	X		X						
OK520700030050_00	Sandy Creek, East Fork	5.48	R	3	2017	X	X				X	X		X						

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OK520700030060_00	Sandy Creek, West Fork	7.87	R	3	2017	X	X				X	X		X						
OK520700030070_00	Wolfe Creek	5.71	R	3	2017	X	X				X	X		X						
OK520700030080_00	Welty Creek	3.16	R	3	2017	X	X				X	X		X						
OK520700030090_00	Clifty Creek	2.62	R	3	2017	X	X				X	X		X						
OK520700030100_00	Salt Creek	22.35	R	4a	2014	F	F				F	X		N		I				
OK520700030110_00	Bachelor Creek	4.90	R	3	2017	X	X				X	X		X						
OK520700030120_00	Gypsy Creek	7.20	R	3	2017	X	X				X	X		X						
OK520700030130_00	Junction Creek	5.66	R	3	2017	X	X				X	X		X						
OK520700030140_00	Little Creek	2.45	R	3	2017	X	X				X	X		X						
OK520700030150_00	Pickle Creek	4.13	R	3	2017	X	X				X	X		X						
OK520700030160_00	Big Pond Creek	2.92	R	3	2017	X	X				X	X		X						
OK520700030170_00	Ritts Junction Creek	5.52	R	3	2017	X	X				X	X		X						
OK520700030180_00	Hickory Creek	1.53	R	3	2017	X	X				X	X		X						
OK520700030190_00	Sunny Slope Creek, North	4.29	R	3	2017	X	X				X	X		X						
OK520700030200_00	Sunny Slope Creek, South	1.59	R	3	2017	X	X				X	X		X						
OK520700030210_00	Milfay Creek	3.59	R	3	2017	X	X				X	X		X						
OK520700030220_00	Camp Creek	5.14	R	4a	2014	I	F				F	X		N		I				
OK520700030230_00	Camp Creek	5.86	R	3	2017	X	X				X	X		X		X				✓
OK520700030240_00	Stroud Lake	600	L	5a	2014	F	F				N	X		F		F				✓
OK520700030250_00	Lilly Creek	4.43	R	3	2017	X	X				X	X		X						
OK520700030260_00	Spring Creek	6.85	R	3	2017	X	X				X	X		X						
OK520700030270_00	Hilliby Creek	13.39	R	5a	2017	I	I				N	X		X						

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OK520700030280_00	Harrican Creek	4.17	R	3	2017	X	X				X	X		X						
OK520700030290_00	Little Hilliby Creek	4.28	R	3	2017	X	X				X	X		X						
OK520700030300_00	Pettiquah Creek	11.11	R	3	2017	X	X				X	X		X						
OK520700030310_00	Uchee Creek	5.92	R	3	2017	X	X				X	X		X						
OK520700030320_00	Todd Creek	1.21	R	3	2017	X	X				X	X		X						
OK520700030330_00	Barby Creek	4.74	R	3	2017	X	X				X	X		X						
OK520700030340_00	Todd Lake	1	L	3	2016	X	X				X	X		X						
OK520700040010_00	Canadian River, Deep Fork	18.10	R	5a	2012	I	F				N	N		N		I				
OK520700040020_00	Dry Creek	28.27	R	4a	2014	I	F				N	X		N		I				
OK520700040030_00	Gray Horse Creek	4.46	R	3	2017	X	X		X			X			X					
OK520700040040_00	Wild Horse Creek	5.35	R	3	2017	X	X				X	X		X						
OK520700040050_00	Dosie Creek	8.72	R	3	2017	X	X				X	X		X						
OK520700040060_00	Chuckaho Creek	10.03	R	3	2017	X	X				X	X		X		X				
OK520700040070_00	Davenport Creek	1.38	R	3	2017	X	X				X	X		X						
OK520700040080_00	Davenport Lake	7	L	3	2016	X	X				X	X		X						
OK520700040090_00	Possum Trot Creek	3.48	R	3	2017	X	X				X	X		X						
OK520700040100_00	Ranch Creek	12.40	R	3	2017	X	X				X	X		X						
OK520700040110_00	Fourmile Creek	7.56	R	3	2017	X	X				X	X		X						
OK520700040120_00	Ranch Creek, North Branch	3.77	R	3	2017	X	X				X	X		X						
OK520700040130_00	Spring Creek	1.83	R	3	2017	X	X				X	X		X						
OK520700040140_00	Turkey Creek	1.43	R	3	2017	X	X				X	X		X						
OK520700040150_00	Beaver Creek	0.82	R	3	2017	X	X				X	X		X						

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OK520700040160_00	Beaver Creek, East	7.00	R	3	2017	X	X				X	X		X						
OK520700040170_00	Beaver Creek, West	7.91	R	3	2017	X	X				X	X			X					
OK520700040180_00	Deer Creek	16.30	R	3	2017	I	X				I	X		X		X				
OK520700040190_00	Robinson Creek	19.62	R	3	2017	X	X				X	X		X		X				
OK520700040200_00	Warsham Creek	4.52	R	3	2017	X	X				X	X		X						
OK520700040210_00	Sand Creek	3.63	R	3	2017	X	X				X	X		X						
OK520700040220_00	Prague Lake	225	L	2	2016	F	F				F	X		F						
OK520700040230_00	Clark Creek	1.90	R	3	2017	X	X				X	X		X						
OK520700040240_00	Clark Lake	269	L	3	2016	X	X				X	X		X						
OK520700040250_00	Browns Lake	34	L	3	2016	X	X				X	X		X						
OK520700040260_00	Quapaw Creek	26.81	R	4a	2014	F	F				F	X		N		I				
OK520700040270_00	Sparks Creek	0.92	R	3	2017	X	X				X	X		X						
OK520700040280_00	Sparks Lake	1	L	3	2016	X	X				X	X		X		X				
OK520700040290_00	Hogshooter Creek	3.27	R	3	2017	X	X				X	X		X						
OK520700040300_00	Breakfast Creek	4.66	R	3	2017	X	X				X	X		X						
OK520700040310_00	Spring Creek	4.27	R	3	2017	X	X				X	X		X						
OK520700040320_00	Little Sand Creek	7.24	R	3	2017	X	X				X	X		X						
OK520700040330_00	Clear Creek	2.40	R	3	2017	X	X				X	X		X						
OK520700040340_00	Sand Creek	5.40	R	3	2017	X	X				X	X		X						
OK520700040350_00	Quapaw Creek, South	3.76	R	3	2017	X	X				X	X		X		X				✓
OK520700040360_00	Quapaw Creek, South	5.31	R	3	2017	X	X				X	X		X		X				✓
OK520700040370_00	Meeker Lake	250	L	5a	2016	N	F				N	X		F		F				✓

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OK520700040380_00	Coon Creek	3.71	R	3	2017	X	X				X	X		X						
OK520700040390_00	Wildhorse Creek	5.68	R	3	2017	X	X				X	X		X						
OK520700040400_00	Brush Creek	7.41	R	3	2017	X	X				X	X		X						
OK520700040410_00	Robinson Creek, Unnamed Trib of	3.09	R	3	2017	X	X				X	X		X						
OK520700050010_00	Canadian River, Deep Fork	25.60	R	5c	2012	F	F				N	X		X		I				
OK520700050020_00	Bellcow Creek	5.75	R	4a	2014	I	X				I	X		N		X				
OK520700050025_00	Bellcow Lake	1,153	L	5a	2016	F	F				N	X		F		F				
OK520700050030_00	Bellcow Creek	8.49	R	3	2017	X	X				X	X		X		X				
OK520700050040_00	Bellcalf Creek	1.14	R	3	2017	X	X				X	X		X						
OK520700050050_10	Bellcalf Creek	1.94	R	3	2017	X	X				X	X		X		X				✓
OK520700050060_00	Chandler Lake	129	L	5a	2016	F	F				N	X		F		N				✓
OK520700050070_00	Otoe Creek	2.79	R	3	2017	X	X				X	X		X						
OK520700050080_00	Bellcow Creek, North	4.56	R	5c	2012	N	X				N	X		X						
OK520700050090_00	Kickapoo Creek	6.36	R	3	2017	X	X				X	X		X		X				
OK520700050100_00	Rat Creek	5.09	R	3	2017	X	X				X	X		X						
OK520700050110_00	Pecan Creek	7.11	R	3	2017	X	X				X	X		X						
OK520700050120_00	Spring Creek	8.16	R	3	2017	X	X				X	X		X						
OK520700050130_00	Eagle Creek	7.70	R	3	2017	X	X				X	X		X						
OK520700050140_00	Captain Creek	4.40	R	5a	2012	F	F				I	X		N		F				
OK520700050150_00	Captain Creek, East	7.69	R	3	2017	X	X				X	X		X		X				
OK520700050160_00	Captain Creek, West	8.74	R	3	2017	X	X				X	X		X						
OK520700050170_00	Bear Creek	26.06	R	3	2017	X	X				X	X		X		X				

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OK520700050180_00	Grant Creek	3.29	R	3	2017	X	X				X	X		X						
OK520700050190_00	Blue Creek	3.33	R	3	2017	X	X				X	X		X						
OK520700050200_00	Opossum Creek	7.37	R	4a	2014	F	F				N	X		I						
OK520700050210_00	Fall Creek	7.08	R	3	2017	X	X				X	X		X						
OK520700050220_00	Wildhorse Creek	9.79	R	3	2017	X	X				X	X		X						
OK520700050230_00	Wildhorse Creek, East Fork	2.38	R	3	2017	X	X				X	X		X						
OK520700050240_00	Wildhorse Creek, West Fork	3.58	R	3	2017	X	X				X	X		X						
OK520700050250_00	Chandler Lake, NW Trib!	2.36	R	5a	2012	N	X				N	X		X		N				✓
OK520700050260_00	Bellcow Creek, Unnamed Tributary of	1.51	R	3	2017	X	X		X						X					
OK520700050270_00	West Captain Creek, Unnamed Trib of	6.26	R	5c	2017	I	X				N	X		X						
OK520700060010_00	Little Deep Fork Creek	20.30	R	2	2017	I	F				I	I		I						
OK520700060020_00	Comelys Branch	3.74	R	3	2017	X	X				X	X		X						
OK520700060030_00	Frank Henry Creek	4.68	R	3	2017	X	X				X	X		X						
OK520700060040_00	McKennon Creek	2.50	R	3	2017	X	X				X	X		X						
OK520700060050_00	Browns Creek	13.93	R	5a	2017	I	I				N	X		X		X				
OK520700060060_00	Turkey Creek	10.72	R	2	2017	I	I				F	X		X						
OK520700060070_00	Chicken Creek	8.07	R	3	2017	X	X				X	X		X						
OK520700060080_00	Skull Creek	7.41	R	3	2017	I	I				I	X		X						
OK520700060090_00	Morgan Creek	3.00	R	3	2017	X	X				X	X		X						
OK520700060100_00	Little Deep Fork Creek	1.82	R	3	2017	X	X				X	X		X						
OK520700060110_00	Sand Creek	8.90	R	3	2017	I	I				I	X		X						
OK520700060120_00	Rock Creek	8.15	R	2	2017	I	F				I	X		X						

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OK520700060130_00	Little Deep Fork Creek	4.56	R	3	2012	X	X		X			X			X	X				
OK520700060130_05	Little Deep Fork Creek	0.31	R	3	2017	X	X				X	X		X		X				
OK520700060130_10	Little Deep Fork Creek	24.39	R	5a	2012	F	F				N	X		N		I				
OK520700060140_00	Catfish Creek	9.94	R	5a	2017	I	N				N	X		X		X				
OK520700060150_00	Massena Creek	0.51	R	3	2017	X	X				X	X		X						
OK520700060160_00	Massena Lake	90	L	3	2016	X	X				X	X		X						
OK520700060170_00	Little Catfish Creek	6.51	R	3	2017	X	X				X	X		X						
OK520700060180_00	Swan Creek	2.94	R	3	2017	X	X				X	X		X						
OK520700060190_00	Spring Creek	2.23	R	3	2017	I	I				I	X		X						
OK520700060200_00	Spring Creek, East	8.73	R	3	2017	I	I				I	X		X						
OK520700060210_00	Spring Creek, West	7.28	R	5c	2012	I	N				I	X		X		I				
OK520700060220_00	Little Deep Fork Creek, Unnamed Tributary of	2.08	R	3	2017	X	X		X						X					
OK520710010010_00	Canadian River, Deep Fork	7.70	R	5a	2012	I	F				N	X		N		I				
OK520710010020_00	Smith Creek	6.37	R	3	2017	X	X		X			X		X		X				
OK520710010030_00	Coon Creek	12.47	R	5a	2017	I	I				N	X		I						
OK520710010040_00	Hiwassee Creek	2.98	R	3	2017	X	X				X	X		X						
OK520710010050_00	Hiwassee Lake	132	L	3	2016	X	X				X	X		X						
OK520710010060_00	Soldier Creek	4.82	R	3	2017	X	X				I	X		X						
OK520710010070_00	Opossum Creek	3.49	R	3	2017	X	X				X	X		X						
OK520710010080_00	Canadian River, Deep Fork	0.91	R	3	2017	X	X				X	X		X		X				
OK520710010090_00	Coffee Creek	4.17	R	2	2017	I	F		I			X		X		I				
OK520710010090_10	Coffee Creek	1.28	R	3	2017	X	X				X	X		X		X				

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OK520710010100_00	Coffee Creek	4.87	R	3	2017	I	I				I	X		X		X				
OK520710010110_00	Cowbell Creek	4.57	R	3	2017	X	X				X	X		X						
OK520710010120_00	Peavine Creek	4.55	R	3	2017	X	X				X	X		X						
OK520710020010_00	Canadian River, Deep Fork	4.14	R	3	2017	X	X				X	X		X		X				✓
OK520710020020_00	Arcadia Lake	1,820	L	5a	2014	F	F				N	X		F		N				✓
OK520710020030_00	Spring Creek	5.27	R	5a	2017	I	I				N	X		N		I				✓
OK520710020040_00	Tinker Creek	1.92	R	3	2017	X	X				X	X		X		X				✓
OK520710020050_00	Wynn Creek	5.59	R	3	2017	X	X				X	X		X		X				✓
OK520710020060_00	Canadian River, Deep Fork	10.07	R	5a	2012	F	F				I	X		N		I				✓
OK520710020070_00	Britton Creek	4.72	R	3	2017	X	X				X	X		X		X				✓
OK520710020075_00	Deep Fork, Unnamed Tributary of	3.32	R	3	2017	X	X				X	X		X		X				✓
OK520710020080_00	Aluma Creek	1.33	R	3	2017	X	X				X	X		X		X				✓
OK520710020090_00	Aluma Lake	13	L	3	2016	X	X				X	X		X		X				✓
OK520710020100_00	Forest Park Creek	2.69	R	3	2017	X	X				X	X		X		X				✓
OK520710020110_00	Northeast Creek	2.46	R	3	2017	X	X				X	X		X		X				✓
OK520710020120_00	Northeast Lake (Zoo)	29	L	3	2016	X	X				X	X		X		X				✓
OK520710020130_00	Springlake Creek	2.07	R	3	2017	X	X				X	X		X		X				✓
OK520710020140_00	Guy James Creek	1.97	R	3	2017	X	X				X	X		X		X				✓
OK520710020150_00	Nichols Creek	0.97	R	3	2017	X	X				X	X		X		X				✓
OK520710020160_00	Belle Isle Creek	2.23	R	3	2017	X	X				X	X		X		X				✓
OK520800010010_00	Little River	24.80	R	5a	2012	I	F				N	F		N		I				
OK520800010030_00	Bemore Creek	1.92	R	3	2017	X	X				X	X		X		X				✓

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OK520800010040_00	Holdenville Lake	550	L	5a	2014	F	F				N	X		F		N				✓
OK520800010050_00	Bird Creek	13.81	R	5a	2012	I	N		N			X			F					
OK520800010055_00	Kight Creek	4.55	R	5c	2012	F	N				I	X		X		I				
OK520800010060_00	Cudjo Creek	5.88	R	5c	2012	F	N				N	X		X		I				
OK520800010062_00	Bear Cub Creek	1.05	R	5c	2012	I	F				N	X		X						
OK520800010070_00	Sand Creek	5.93	R	3	2017	X	X				X	X		X						
OK520800010080_00	Rock Creek	4.75	R	3	2017	X	X				X	X		X						
OK520800010090_00	Little River	28.45	R	5c	2012	I	N				F	X		X		I				
OK520800010110_00	Tate Mountain Creek	3.57	R	3	2017	X	X				X	X		X						
OK520800010120_00	Trib 9!	7.11	R	3	2012	X	X				X	X		X						
OK520800010130_00	Little River	17.11	R	5c	2017	I	N				N	X		X		I				
OK520800010140_00	Mini Creek	2.96	R	3	2017	X	X				X	X		X						
OK520800010150_00	Bird Creek, Unnamed Tributary of	5.15	R	3	2017	X	X				X	X			X					
OK520800010160_00	Rogers Creek	2.41	R	3	2017	X	X				X	X		X						
OK520800010170_00	Brier Creek	6.36	R	3	2017	X	X				X	X		X						
OK520800010180_00	Tyner Creek	3.38	R	3	2017	X	X				X	X		X						
OK520800010190_00	Tecumseh Creek, South	5.48	R	3	2012	X	X				X	X		X						
OK520800010200_00	Little River, Unnamed Tributary of	1.95	R	3	2012	X	X		X						X					
OK520800020010_00	Little River	20.98	R	3	2012	X	X				X	X		X		X				
OK520800020020_00	Dance Creek	9.92	R	3	2012	X	X				X	X		X						
OK520800020030_00	Morvin Creek	3.66	R	3	2012	X	X				X	X		X						
OK520800020040_00	Sand Creek	3.34	R	3	2012	X	X				X	X		X						

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OK520800020050_00	Coon Creek	5.14	R	3	2012	X	X				X	X		X						
OK520800020060_00	Council Creek	7.26	R	3	2012	X	X				X	X		X						
OK520800020070_00	Jim Creek	7.73	R	3	2017	X	X				X	X		X						
OK520800020080_00	Pecan Creek	10.80	R	5a	2017	N	I				N	X		I						
OK520800020090_00	Bullfrog Creek	5.05	R	3	2017	X	X				X	X		X						
OK520800020100_00	Spring Creek	8.33	R	3	2017	X	X				X	X		X						
OK520800020110_00	Bourbonais Creek	4.49	R	3	2017	X	X				X	X		X						
OK520800020120_00	Roulette Creek	5.34	R	3	2017	X	X				X	X		X						
OK520800020130_00	Prairie Creek	7.92	R	3	2017	X	X				X	X		X						
OK520800030010_00	Salt Creek	39.02	R	5a	2012	I	N				N	X		N		I				
OK520800030020_00	Sandy Creek	6.03	R	2	2012	I	F				I	X		X		I				
OK520800030030_00	Mud Creek	8.72	R	3	2017	X	X				X	X		X						
OK520800030040_00	Maud Creek	4.49	R	3	2017	X	X				X	X		X						
OK520800030060_00	Katy Lake	11	L	3	2016	X	X				X	X		X						
OK520800030070_00	Bruno Creek	10.32	R	5c	2012	I	N				I	X		X		I				
OK520800030080_00	Popshego Creek	4.38	R	5c	2012	F	N				I	X		X		N				
OK520800030090_00	Marcum Creek	5.57	R	3	2017	X	X				X	X		X						
OK520800030100_00	Sand Creek	4.47	R	3	2017	X	X				X	X		X						
OK520800030110_00	Box Creek	2.66	R	3	2017	X	X				X	X		X						
OK520800030120_00	Blacksmith Creek	5.99	R	5c	2012	I	N				I	X		X		I				
OK520800030130_00	Opossum Creek	4.48	R	3	2017	X	X				X	X		X						
OK520800030140_00	Delaware Creek	2.12	R	3	2017	X	X				X	X		X						

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OK520800030150_00	Cottonwood Creek	5.58	R	3	2017	X	X				X	X		X						
OK520800030160_00	Wolf Creek	2.29	R	3	2017	X	X				X	X		X						
OK520800030170_00	Bruno Creek, Unnamed Trib of	3.12	R	3	2017	X	X				X	X		X						
OK520810000010_00	Little River	1.27	R	3	2017	X	X				X	X		X		X				✓
OK520810000020_00	Thunderbird Lake	6,070	L	5a	2012	I	F				N	X		F		N				✓
OK520810000030_00	Hog Creek	11.89	R	5a	2012	I	F				N	X		N		X				✓
OK520810000040_00	Hog Creek, West Branch	3.69	R	5a	2012	I	I				N	X		I		X				✓
OK520810000050_00	Clear Creek	3.70	R	3	2012	X	X				X	X		X		X				✓
OK520810000060_00	Dave Blue Creek	7.16	R	3	2012	X	X				X	X		X		X				✓
OK520810000070_00	Jim Blue Creek	4.40	R	3	2012	X	X				X	X		X		X				✓
OK520810000080_00	Little River	14.96	R	5a	2012	X	F				N	X		N		X				✓
OK520810000090_00	Rock Creek	5.99	R	5a	2012	X	F				I	X		N		X				✓
OK520810000100_00	Elm Creek	1.44	R	5a	2012	F	N				N	X		N		F				✓
OK520810000110_00	Elm Creek, East	2.40	R	5a	2012	I	I				N	X		I		X				✓
OK520810000130_00	Stanley Draper Lake	2,900	L	5a	2015	F	F				N	N		F		F				✓
OK520810000140_00	Elm Creek, West	8.00	R	5a	2012	X	F				F	X		N		X				✓
OK520810000150_00	Kitchen Creek	5.41	R	3	2012	X	X				X	X		X		X				✓
OK520810000160_00	Kitchen Lake	25	L	3	2016	X	X				X	X		X						
OK520810000170_00	Little River, North Fork	8.94	R	2	2016	I	F				I	X		X		X				✓
OK520810000175_00	Moore Creek	4.02	R	5c	2016	F	N				I	X		X		F				✓
OK520810000180_00	Mussel Shoals Lake Creek	0.63	R	3	2016	X	X				X	X		X		X				✓

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OK620900010020_00	Keystone Lake, Cimarron River Arm, Lower	4,673	L	5a	2012	F	F				N	X		I		I				
OK620900010030_00	Salt Creek	3.51	R	3	2016	X	X				X	X		X						
OK620900010040_00	Little Salt Creek	4.37	R	3	2016	X	X				X	X		X						
OK620900010050_00	Mannford Reservoir	268	L	3	2016	X	X				X	X		X						
OK620900010060_00	Mannford Creek	2.32	R	3	2016	X	X				X	X		X						
OK620900010070_00	Fish Creek	2.61	R	3	2016	X	X				X	X		X						
OK620900010090_00	Keystone Lake, Cimarron River Arm, Upper	5,550	L	5a	2012	I	F				N	X		I		I				
OK620900010100_00	House Creek	9.10	R	3	2016	X	X				X	X		X						
OK620900010110_00	Terlton Creek	4.63	R	3	2016	X	X				X	X		X						
OK620900010120_00	Hallett Creek	5.50	R	3	2016	X	X				X	X		X						
OK620900010130_00	Jennings Creek	1.73	R	3	2016	X	X				X	X		X						
OK620900010140_00	Cottonwood Creek	5.83	R	3	2016	I	I				I	X		X		I				
OK620900010150_00	Rocky Canyon Creek	4.11	R	3	2016	X	X				X	X		X						
OK620900010160_00	Sand Creek	5.95	R	3	2016	X	X				X	X		X						
OK620900010170_00	Cimarron River	1.54	R	2	2016	I	F				I	X		X			F			
OK620900010170_10	Cimarron River	26.58	R	5a	2012	I	F				N	N		N			F			
OK620900010180_00	Lagoon Creek	18.55	R	4a	2014	F	F				F	X		N						
OK620900010190_00	Kenny Creek	6.04	R	3	2016	X	X				X	X		X						
OK620900010200_00	Crystal Creek	4.78	R	3	2016	X	X				X	X		X						
OK620900010210_00	Maramel Creek, South	5.07	R	3	2016	X	X				X	X		X						
OK620900010220_00	Buckeye Creek	11.42	R	2	2016	I	F				I	X		I						
OK620900010230_00	Dry Creek	9.52	R	2	2016	I	F				I	X		X						

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OK620900010240_00	Deer Creek	6.98	R	3	2016	X	X				X	X		X						
OK620900010250_00	Tiger Creek	9.68	R	2	2016	F	F				F	X		X						
OK620900010260_00	Little Tiger Creek	4.50	R	3	2016	X	X				X	X		X						
OK620900010280_00	Tydol Lake (Tidal)	5	L	3	2016	X	X				X	X		X						
OK620900010290_00	Euchee Creek	9.56	R	4a	2014	I	F				I	X		N			F			
OK620900010290_10	Euchee Creek	12.40	R	2	2016	X	X				X	X			X		F			
OK620900010300_00	Sand Creek	8.39	R	3	2016	I	I				I	X		X		I				
OK620900010310_00	Cottonwood Creek	6.26	R	5a	2016	I	X				N	X		N			F			
OK620900010320_00	Wildhorse Creek	8.09	R	2	2016	I	I				F	X		X		I	F			
OK620900010330_00	Turkey Creek	5.95	R	3	2016	X	X				X	X		X						
OK620900010340_00	Rattlesnake Creek	4.21	R	3	2016	X	X				X	X		X						
OK620900010350_00	Turkey Creek	3.88	R	3	2016	X	X				X	X		X						
OK620900010360_00	Skull Creek	8.69	R	2	2016	I	I				I	I		X			F			
OK620900010370_00	Cross Bones Creek	2.30	R	3	2016	X	X				X	X		X						
OK620900010380_00	Mud Creek	6.49	R	3	2016	X	X				X	X		X						
OK620900010390_00	Yale Creek	3.23	R	3	2016	X	X				X	X		X						
OK620900020010_00	Cimarron River	20.70	R	2	2016	I	F				I	X		X			F			
OK620900020020_00	Salt Creek	14.71	R	4a	2014	F	F				F	X		N		I				
OK620900020030_00	Eagle Creek	7.46	R	3	2016	X	X				X	X		X						
OK620900020040_00	Short Creek	3.64	R	3	2016	X	X				X	X		X						
OK620900020050_00	Council Creek	21.94	R	4a	2014	F	F				F	X		N		I				
OK620900020060_00	Feather Creek	6.01	R	2	2016	X	X				F	X		X						

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OK620900020070_00	Hog Hollow Creek	2.61	R	3	2016	X	X				X	X		X						
OK620900020080_00	Long Branch	5.51	R	3	2016	X	X				X	X		X						
OK620900020090_00	Cabin Creek	3.64	R	3	2016	X	X				X	X		X						
OK620900020100_00	Big Creek	2.17	R	3	2016	X	X				X	X		X		X				
OK620900020110_00	Big Creek	7.99	R	3	2016	X	X				X	X		X		X				✓
OK620900020120_00	Cushing Lake	591	L	5a	2014	N	F				N	X		F		F				✓
OK620900020130_00	Elm Creek	5.56	R	3	2016	X	X				X	X		X		X				✓
OK620900020140_00	Ghost Hollow Creek	2.23	R	3	2016	X	X				X	X		X						
OK620900030010_00	Cimarron River	42.09	R	5a	2012	I	F				N	N		N			F			
OK620900030030_00	Brush Creek	6.55	R	3	2016	X	X				X	X		X						
OK620900030040_00	Sand Creek	8.24	R	3	2016	X	X		X			X			X					
OK620900030050_00	Sand Creek, East Fork	4.01	R	3	2016	X	X				X	X		X						
OK620900030060_00	Headquarters Creek	16.42	R	3	2016	X	X				X	X		X						
OK620900030070_00	Tryon Creek	3.19	R	3	2016	X	X				X	X		X						
OK620900030080_00	Dugout Creek	13.58	R	4a	2014	F	F				F	X		N		I				
OK620900030090_00	Lost Creek	11.56	R	2	2016	X	X				F	X		X						
OK620900030100_00	Perkins Creek	2.14	R	3	2016	X	X				X	X		X						
OK620900030110_00	Corduoy Creek	8.75	R	3	2016	X	X				X	X		X						
OK620900030120_00	Wild Horse Creek	15.88	R	3	2016	I	I				I	X		X						
OK620900030130_00	Walnut Creek	8.75	R	3	2016	X	X				X	X		X						
OK620900030150_00	Fitzgerald Creek	17.09	R	3	2016	X	X				X	X		X		X				
OK620900030160_00	Soldier Creek	6.39	R	3	2016	X	X				X	X		X						

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OK620900030170_00	Langston Creek	2.61	R	3	2016	X	X				X	X		X		X				✓
OK620900030180_00	Langston Lake	304	L	2	2014	F	F				F	X		F		F				✓
OK620900030190_00	Indian Meridian Creek	8.23	R	3	2016	I	I				I	X		X		I				
OK620900030200_00	Pleasant Valley Creek	2.31	R	3	2016	X	X				X	X		X						
OK620900030210_00	Clear Creek	10.04	R	3	2016	I	I				I	X		X		I				
OK620900030220_00	Antelope Creek	8.49	R	3	2016	X	X				X	X		X						
OK620900030230_00	Beaver Creek	12.65	R	4a	2016	I	F				N	X		N		I				
OK620900030240_00	Mulhall Creek	7.75	R	3	2016	I	I				I	X		X		I				
OK620900030250_00	Beaver Creek, East	12.55	R	2	2016	I	F				I	X		X		I				
OK620900030260_00	Beaver Creek, West	13.21	R	5a	2016	I	F				N	X		N		I				
OK620900030270_00	Beaver Creek, Middle	10.04	R	3	2018	I	I				I	X		X		I				
OK620900040010_00	Stillwater Creek	1.58	R	3	2016	I	X				I	X		X		X				
OK620900040020_00	Spring Creek	4.61	R	3	2016	X	X				X	X		X						
OK620900040030_00	Deer Creek	3.83	R	3	2016	X	X				X	X		X						
OK620900040040_00	Stillwater Creek	3.53	R	5a	2016	F	F				N	X		N		I				
OK620900040050_00	Little Stillwater Creek	13.91	R	5a	2016	I	I				F	X		X		N				
OK620900040060_00	Mehan Creek	1.23	R	3	2016	X	X				X	X		X						
OK620900040070_00	Stillwater Creek	5.85	R	2	2016	X	X		X			X		X		X	F			
OK620900040070_10	Stillwater Creek	16.43	R	5a	2016	F	F		N			X			I	I	F			
OK620900040080_00	Fairgrounds Creek	3.96	R	3	2016	X	X				X	X		X						
OK620900040090_00	Brush Creek	1.92	R	3	2016	X	X		X			X			X					
OK620900040100_00	Brush Creek, East	9.65	R	3	2016	X	X				X	X		X						

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OK620900040110_00	Yost Lake Creek	1.52	R	3	2016	X	X				X	X		X						
OK620900040120_00	Yost Lake	26	L	3	2016	X	X				X	X		X						
OK620900040130_00	Brush Creek, West	9.82	R	3	2016	X	X				X	X		X						
OK620900040140_00	Boomer Creek	2.28	R	3	2016	X	X				X	X		X		X				
OK620900040150_00	Sanborn-Hazen Lake Creek	3.59	R	3	2016	X	X				X	X		X						
OK620900040160_00	Hazen Lake	1	L	3	2016	X	X				X	X		X						
OK620900040170_00	Sanborn Lake	1	L	3	2016	X	X				X	X		X						
OK620900040180_00	Boomer Creek	6.49	R	3	2016	X	X				X	X		X		X				✓
OK620900040190_00	Boomer Lake	260	L	5a	2012	N	F				N	N		F		F				✓
OK620900040195_00	Duck Creek	3.06	R	3	2016	X	X				X	X		X						
OK620900040200_00	Cow Creek	8.26	R	2	2016	X	X				F	X		X						
OK620900040210_00	Dry Creek	7.41	R	3	2016	X	X				X	X		X						
OK620900040220_00	Stillwater Creek, North	3.76	R	3	2016	X	X				X	X		X		X				✓
OK620900040230_00	Stillwater Creek, North	6.80	R	3	2016	X	X				X	X		X		X				✓
OK620900040240_00	McMurtry Lake	1,155	L	5a	2012	F	F				N	X		F		F				✓
OK620900040250_00	Harrington Creek	4.41	R	3	2016	X	X				X	X		X						
OK620900040260_00	Harrington Creek Lake (Stillwater Creek site 4)	1	L	3	2016	X	X				X	X		X						
OK620900040270_00	Stillwater Creek	2.15	R	2	2016	X	X		X			X			X	X	F			
OK620900040270_10	Stillwater Creek	6.42	R	5a	2016	F	F				N	X		I		X				✓
OK620900040280_00	Carl Blackwell Lake	3,370	L	5a	2015	N	F				N	X		F		N				✓
OK620900040290_00	Hunt Creek	3.16	R	3	2016	X	X				X	X		X		X				✓
OK620900040300_00	Little Stillwater Creek	4.67	R	3	2016	X	X				X	X		X		X				✓

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OK620910010010_00	Cimarron River	8.33	R	5a	2012	I	F				F	F		N			F			
OK620910010010_10	Cimarron River	28.89	R	2	2016	X	X				X	X		X			F			
OK620910010030_00	Lawrie Creek	2.75	R	3	2016	X	X				X	X		X						
OK620910010040_00	Pin Creek	8.26	R	3	2016	I	I				I	X		X						
OK620910010060_00	Gar Creek	7.58	R	3	2016	I	I				I	X		X						
OK620910010070_00	Pawnee Creek	9.29	R	3	2016	X	X				X	X		X						
OK620910010080_00	Cox Creek	5.54	R	3	2016	X	X				X	X		X						
OK620910010090_00	Boggy Creek	4.86	R	3	2016	X	X				X	X		X						
OK620910010100_00	Crescent Creek	3.88	R	3	2016	X	X				X	X		X						
OK620910010110_00	Cedar Cove Lake	2	L	3	2016	X	X				X	X		X						
OK620910010120_00	Lattawanna Lake	16	L	3	2016	X	X				X	X		X						
OK620910010130_00	Campbell Creek	13.63	R	3	2016	I	I				I	X		X						
OK620910010140_00	Walnut Creek	12.66	R	3	2016	X	X				X	X		X						
OK620910010150_00	Sooner Trend Creek	8.03	R	3	2016	I	I				I	X		X						
OK620910010160_00	Bird Creek	6.94	R	3	2016	I	I				I	X		X						
OK620910020010_00	Cimarron River	17.84	R	5a	2012	F	F				N	F		N			F			
OK620910020010_10	Cimarron River	41.63	R	5a	2012	F	N				N	F		N			F			
OK620910020040_00	Cooper Creek	40.27	R	5a	2012	F	N				F	X		N		I				
OK620910020050_00	Oneida Creek	7.07	R	3	2016	X	X				X	X		X						
OK620910020060_00	Felter Branch	2.50	R	3	2016	X	X				X	X		X						
OK620910020070_00	Willow Creek	7.08	R	3	2016	X	X				X	X		X						
OK620910020080_00	Preacher Creek	8.30	R	3	2016	I	I				I	X		X						

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OK620910020090_00	Pepper Creek	5.99	R	3	2016	X	X				X	X		X						
OK620910020092_00	Sweet Alley	5.98	R	3	2016	X	X				X	X		X						
OK620910020100_00	Salt Creek	4.43	R	2	2012	I	F				F	F			I		F			
OK620910020100_10	Salt Creek	24.53	R	2	2016	I	I		I			I			I		F			
OK620910020110_00	Spring Creek	22.89	R	3	2016	X	X				X	X		X		X				
OK620910020115_00	Spring Creek, Unnamed Trib of	4.68	R	3	2016	X	X		X						X					
OK620910020120_00	Hitchcock Creek	12.36	R	3	2016	X	X		X						X					
OK620910020140_00	Hitchcock Creek, West	2.68	R	3	2016	X	X				X	X		X						
OK620910020150_00	Bitter Creek	5.53	R	3	2016	X	X				X	X		X						
OK620910020160_00	Cat Canyon Creek	3.44	R	3	2016	X	X				X	X		X						
OK620910020170_00	Bitter Creek	4.22	R	3	2016	X	X				X	X		X						
OK620910020180_00	Watonga Lake	55	L	3	2016	X	X				X	X		X						
OK620910020190_00	Boecher Lake	12	L	3	2016	X	X				X	X		X						
OK620910020200_00	Ruby Mill Canyon Creek	4.31	R	3	2016	X	X				X	X		X						
OK620910020210_00	Hoyle Creek	25.12	R	3	2016	I	I				I	X		X		X				
OK620910020230_00	Crystal Lake	1	L	3	2016	X	X				X	X		X						
OK620910020240_00	Silver Lake	1	L	3	2016	X	X				X	X		X						
OK620910020250_00	Deep Creek	25.42	R	5a	2016	I	N				F	X		N		I				
OK620910020260_00	Isabella Creek	4.49	R	3	2016	X	X				X	X		X						
OK620910020270_00	Elm Creek	14.15	R	5a	2016	F	N				N	X		N		I				
OK620910020280_00	Darrow Creek	8.00	R	3	2016	X	X				X	X		X						
OK620910020290_00	Homestead Creek	6.61	R	3	2016	X	X				X	X		X						

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OK620910020300_00	Sand Creek	12.86	R	3	2016	X	X				X	X		X						
OK620910020310_00	Indian Creek	16.71	R	4a	2012	F	F				F	X		N		I				
OK620910020320_00	Ringwood Creek	5.70	R	3	2016	X	X				X	X		X						
OK620910020330_00	Carwile Creek	7.60	R	3	2016	X	X				X	X		X		X				
OK620910020370_00	Bitter Creek, Unnamed Trib of	1.30	R	3	2016	X	X				X	X		X						
OK620910030010_00	Skeleton Creek	32.84	R	5a	2012	I	F				N	F		N		I				
OK620910030020_00	Wolf Creek	8.65	R	3	2016	X	X				X	X		X		X				
OK620910030030_00	Bridge Creek	10.27	R	3	2016	I	I				I	X		X		I				
OK620910030040_00	Otter Creek	30.15	R	4a	2014	F	F				F	X		N		I				
OK620910030050_00	Elkhorn Creek	5.36	R	3	2016	I	I				I	X		X		I				
OK620910030060_00	Crows Nest Creek	14.43	R	3	2016	X	X				X	X		X						
OK620910030070_00	4-D Creek	8.83	R	3	2016	X	X				X	X		X						
OK620910030080_00	Shawnee Creek	9.64	R	3	2016	X	X				X	X		X						
OK620910030090_00	Rock Creek	5.76	R	3	2016	X	X				X	X		X						
OK620910030100_00	Spring Creek	5.10	R	3	2016	X	X				X	X		X						
OK620910030110_00	Horse Creek	12.69	R	3	2016	X	X				X	X		X		X				
OK620910030120_00	Cottonwood Creek	10.21	R	3	2016	X	X				X	X		X						
OK620910030130_00	Spring Creek	13.66	R	3	2016	X	X				X	X		X						
OK620910030140_00	Lyon Creek	22.32	R	3	2016	I	I				I	X		X						
OK620910030150_00	Camp Creek	8.90	R	3	2016	X	X				X	X		X						
OK620910030160_00	Crooked Creek	7.31	R	3	2016	X	X				X	X		X						
OK620910030170_00	Skeleton Creek	6.00	R	3	2016	X	X				X	X		X		X				

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OK620910030170_10	Skeleton Creek	22.44	R	2	2016	I	F		I			I			I		F			
OK620910030180_00	Bitter Creek	20.28	R	3	2016	X	X				X	X		X		X				
OK620910030190_00	Wolf Creek	7.14	R	3	2016	X	X				X	X		X						
OK620910030200_00	Rock Creek	10.20	R	3	2016	I	I				I	X		X						
OK620910030210_00	Dry Creek	6.81	R	3	2016	X	X				X	X		X						
OK620910030220_00	Hackberry Creek	17.40	R	2	2016	X	X				X	X			X		F			
OK620910030230_00	Fairmont Creek	10.31	R	3	2016	X	X		X			X			X					
OK620910030240_00	Skeleton Creek	11.45	R	3	2015	X	X				X	X		X		X				
OK620910030250_00	Boggy Creek	15.63	R	3	2016	X	X				X	X		X						
OK620910030260_00	Meadowlake Park Lake	10	L	3	2016	X	X				X	X		X						
OK620910030270_00	Vance Creek	2.78	R	3	2016	X	X				X	X		X						
OK620910030290_00	Covington Creek!	6.73	R	3	2016	X	X				X	X		X						
OK620910040010_00	Cottonwood Creek	22.01	R	5a	2012	F	F				F	X		N		I				
OK620910040010_10	Cottonwood Creek	2.88	R	3	2016	X	X				X	X		X		X				
OK620910040010_20	Cottonwood Creek	24.39	R	4a	2014	I	F				N	X		N		X				
OK620910040020_00	Bird Creek	4.28	R	3	2016	X	X				X	X		X						
OK620910040030_00	Country Club Lake (Santa Fe)	97	L	3	2016	X	X				X	X		X						
OK620910040040_00	Snake Creek	2.95	R	3	2016	X	X				X	X		X						
OK620910040050_00	Guthrie Creek	5.77	R	3	2016	X	X				X	X		X		X				✓
OK620910040060_00	Guthrie Lake	274	L	5a	2016	F	F				N	X		N		N				✓
OK620910040070_00	Liberty Lake Creek	5.56	R	3	2016	X	X				X	X		X		X				✓
OK620910040080_00	Liberty Lake	167	L	5a	2016	F	F				F	X		N		N				✓

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OK620910040090_00	Spring Creek	6.67	R	3	2016	X	X				X	X		X						
OK620910040100_00	Chisholm Creek	21.15	R	5a	2016	I	F				F	I		N		N				
OK620910040110_00	Edmond Creek	3.90	R	3	2016	X	X				X	X		X						
OK620910040120_00	Deer Creek	12.67	R	5a	2016	F	F				N	I		N		F				
OK620910040120_10	Deer Creek	18.51	R	2	2016	X	X				F	X		X		X				
OK620910040130_00	Bloody Rush Creek	6.50	R	3	2016	X	X				X	X		X						
OK620910040140_00	Bluff Creek	9.32	R	5a	2016	I	X				F	X		N		I				
OK620910040150_00	Dry Creek	6.65	R	3	2016	X	X				X	X		X						
OK620910040170_00	Spring Creek	3.77	R	3	2016	X	X				X	X		X						
OK620910040175_00	Hefner Canal	2.58	R	3	2018	X	X				X	X		X						
OK620910040180_00	Ski Island Lake	45	L	3	2016	X	X				X	X		X						
OK620910040190_00	Silver Lake	5	L	3	2016	X	X				X	X		X						
OK620910040200_00	Hefner Lake	2,500	L	5a	2014	F	F				N	X		F		F				
OK620910040210_00	Walnut Creek	9.43	R	3	2016	X	X				X	X		X						
OK620910040220_00	Soldier Creek	8.17	R	3	2016	X	X				X	X		X						
OK620910040230_00	Chapel Hill Creek	6.07	R	3	2016	X	X				X	X		X						
OK620910040240_00	Piedmont Creek	4.33	R	3	2016	X	X				X	X		X						
OK620910040250_00	Spring Creek	4.67	R	3	2016	X	X				X	X		X						
OK620910040260_00	Northwood Lake	190	L	3	2016	I	X				I	X		X						
OK620910040270_00	Cow Creek	4.85	R	3	2016	X	X				X	X		X						
OK620910040280_00	Wolf Creek	6.97	R	3	2016	X	X				X	X		X						
OK620910050010_00	Kingfisher Creek	47.37	R	5a	2012	F	N				N	X		N						

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OK620910050020_00	Trail Creek	14.87	R	4a	2016	I	F				I	X		N						
OK620910050030_00	Uncle Johns Creek	27.49	R	4a	2012	F	F				F	X		N						
OK620910050040_00	Clear Creek	9.90	R	3	2016	X	X				X	X		X						
OK620910050050_00	Concho Creek	11.56	R	3	2016	X	X				X	X		X						
OK620910050060_00	Elmer Lake Creek	5.49	R	3	2016	X	X				X	X		X						
OK620910050070_00	Elmer Lake	60	L	3	2016	X	X				X	X		X						
OK620910050080_00	Winter Camp Creek	24.23	R	5a	2012	F	N				F	X		N		I				
OK620910050085_00	Winter Camp Creek, Unnamed Tributary of	5.25	R	2	2016	X	X		X						X		F			
OK620910050090_00	Okarche Creek	21.87	R	3	2016	I	I				I	X		X						
OK620910050100_00	Altona Creek	6.42	R	3	2016	X	X				X	X		X						
OK620910050110_00	Cheyenne Creek	15.77	R	3	2016	X	X				X	X		X						
OK620910050120_00	Porcupine Creek	14.86	R	3	2016	X	X				X	X		X						
OK620910050130_00	Otter Creek	23.15	R	3	2016	X	X				X	X		X		X				
OK620910050140_00	Cedar Creek	9.43	R	3	2016	X	X				X	X		X						
OK620910050150_00	Winter Camp Creek!	7.73	R	5b	2016	I	N				I	X		X						
OK620910060010_00	Turkey Creek	82.59	R	5a	2012	I	F				F	X		N		I				
OK620910060020_00	Little Turkey Creek	11.37	R	4a	2016	F	F				F	X		N						
OK620910060025_00	Narragansett Creek	2.47	R	3	2016	X	X		X						X					
OK620910060030_00	Buffalo Creek	13.99	R	5a	2016	I	I				N	X		I						
OK620910060040_00	Bison Creek	6.04	R	3	2016	X	X				X	X		X						
OK620910060050_00	Hell and Gone Creek	7.26	R	3	2016	X	X				X	X		X						
OK620910060060_00	Barr Creek	5.72	R	3	2016	X	X				X	X		X						

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OK620910060070_00	Dry Creek	7.52	R	3	2016	X	X				X	X		X						
OK620910060080_00	Flowing Creek	5.01	R	3	2016	X	X				X	X		X						
OK620910060090_00	Sand Creek	4.02	R	3	2016	X	X				X	X		X						
OK620910060100_00	Spring Creek	6.81	R	3	2016	I	I				I	X		X						
OK620910060110_00	Clear Creek	5.18	R	5a	2016	I	I				N	X		I						
OK620910060120_00	Sand Creek	10.16	R	3	2016	X	X				X	X		X						
OK620910060130_00	Carrier Creek	12.66	R	3	2016	X	X				X	X		X						
OK620910060140_00	Dry Salt Creek	6.69	R	3	2016	X	X		X			X			X					
OK620910060145_00	Dry Salt Creek, Unnamed Trib of	0.18	R	3	2016	X	X		X						X					
OK620910060150_00	Elm Creek	8.98	R	3	2016	X	X				X	X		X						
OK620920010010_00	Cimarron River	43.01	R	4a	2014	I	F				N	I		N			F			
OK620920010020_00	Sand Creek	14.40	R	3	2016	I	I				I	X		X		X				
OK620920010030_00	Gypsum Creek	16.16	R	3	2016	X	X				X	X		X		X				
OK620920010040_00	Fairview Creek, West	8.11	R	3	2016	X	X				X	X		X						
OK620920010050_00	Fairview Creek, East	9.01	R	3	2016	X	X				X	X		X						
OK620920010060_00	Elm Creek	10.61	R	3	2016	X	X				X	X		X						
OK620920010080_00	Cottonwood Creek	21.88	R	5a	2016	F	F				N	X		N		I				
OK620920010090_00	Skunk Creek	12.06	R	3	2016	X	X				X	X		X						
OK620920010100_00	Cheyenne Creek	18.53	R	3	2016	X	X				X	X		X		X				
OK620920010110_00	Barney Creek	21.49	R	3	2016	X	X				X	X		X		X				
OK620920010120_00	Barney Creek, West Branch	6.06	R	3	2016	X	X				X	X		X						
OK620920010130_00	Griever Creek	20.28	R	5a	2016	I	F				N	X		N		I				

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OK620920010140_00	Griever Creek, East	13.36	R	5a	2016	F	N				F	X		N		I				
OK620920010150_00	Griever Creek, Middle	6.33	R	3	2016	X	X				X	X		X						
OK620920010160_00	Walnut Grove Creek	8.88	R	3	2016	X	X				X	X		X						
OK620920010170_00	Wildcat Creek	6.58	R	3	2016	X	X				X	X		X						
OK620920010180_00	Main Creek	19.10	R	5a	2016	I	N				N	X		N		I				
OK620920010190_00	Ewers Creek	12.83	R	2	2016	X	X				F	X		X		X				
OK620920010200_00	Gyp Creek	5.09	R	3	2016	X	X				X	X		X						
OK620920010210_00	West Creek	19.62	R	3	2016	X	X				X	X		X						
OK620920010220_00	Cuddy Creek	12.91	R	3	2016	X	X				X	X		X						
OK620920020010_00	Cimarron River	32.63	R	5a	2012	F	N				N	F		N			F			
OK620920020020_00	Dog Creek	8.56	R	2	2016	X	X				X	X		X			F			
OK620920020030_00	Sand Creek	16.85	R	3	2016	X	X				X	X		X		X				
OK620920020040_00	Chimney Creek	16.90	R	3	2016	X	X				X	X		X		X				
OK620920020050_00	Whitehorse Creek	21.66	R	3	2016	I	I				I	X		X		X				
OK620920020060_00	Doe Creek	17.50	R	3	2016	I	I				I	X		X		X				
OK620920020070_00	Wildcat Creek	9.65	R	3	2016	X	X				X	X		X						
OK620920020080_00	Long Creek	17.76	R	4a	2015	F	F				F	X		N		I				
OK620920020090_00	Alabaster Creek	6.07	R	3	2016	X	X				X	X		X						
OK620920020100_00	Slicker Creek	10.70	R	3	2016	X	X				X	X		X						
OK620920020110_00	Red Horse Creek	15.76	R	3	2016	X	X				X	X		X		X				
OK620920020120_00	Anderson Creek	20.19	R	3	2016	X	X				X	X		X		X				
OK620920020130_00	Bull Creek	5.72	R	3	2016	X	X				X	X		X						

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OK620920020140_00	Freedom Creek	8.00	R	3	2016	X	X				X	X		X						
OK620920020150_00	Girl Creek	9.96	R	3	2016	X	X				X	X		X						
OK620920020160_00	Houston Creek	11.89	R	3	2016	X	X				X	X		X						
OK620920020170_00	Traders Creek	22.09	R	5a	2016	F	F				I	X		N		F				
OK620920020180_00	Moccasin Creek	16.85	R	3	2016	X	X				X	X		X		X				
OK620920020190_00	Moccasin Creek, West	9.21	R	3	2016	X	X				X	X		X						
OK620920020200_00	Sand Creek	17.03	R	3	2016	I	I				I	X		X		X				
OK620920030010_00	Cimarron River	24.35	R	5a	2012	F	N				N	F		N			F			
OK620920030030_00	Day Creek	11.76	R	3	2016	X	X				X	X		X		X				
OK620920030040_00	Keno Creek	14.30	R	3	2016	X	X				X	X		X		X				
OK620920030050_00	Anderson Creek	9.09	R	3	2016	X	X				X	X		X						
OK620920030060_00	Lodge Pole Creek	12.55	R	3	2016	X	X				X	X		X						
OK620920040010_00	Eagle Chief Creek	73.43	R	4a	2015	F	F				F	X		N		I				
OK620920040030_00	Big Timber Lake Creek	4.37	R	3	2016	X	X		X			X			X					
OK620920040040_00	Big Timber Lake	15	L	3	2016	X	X				X	X		X						
OK620920040050_00	Spring Creek	2.82	R	3	2016	I	I				I	X		X						
OK620920040060_00	Carmen Creek	3.73	R	3	2016	X	X				X	X		X						
OK620920040070_00	Carmen Creek, East	4.45	R	3	2016	X	X				X	X		X						
OK620920040080_00	Carmen Creek, West	4.07	R	3	2016	X	X				X	X		X						
OK620920040090_00	Sand Creek	17.78	R	3	2016	I	I				I	X		X						
OK620920040100_00	Lake Creek	15.59	R	3	2016	I	I				I	X		X						
OK620920040110_00	Little Eagle Chief Creek	24.99	R	5c	2016	I	N				I	X		X						

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OK620920040120_00	Noel Creek	6.73	R	3	2016	X	X				X	X		X						
OK620920040140_00	Avard Lake	1	L	3	2016	X	X				X	X		X						
OK620920040160_00	McGill Lake	24	L	3	2016	X	X				X	X		X						
OK620920040170_00	Lojo creek	7.53	R	2	2018	F	I				I	X		X						
OK620920050010_00	Buffalo Creek	49.75	R	4a	2015	I	F				F	X		N		I				
OK620920050020_00	Elm Creek	11.50	R	3	2016	I	I				I	X		X						
OK620920050030_00	Sleeping Bear Creek	16.60	R	3	2016	I	I				I	X		X		I				
OK620920050040_00	Gilbert Creek	6.07	R	3	2016	I	I				I	X		X						
OK620920050050_00	Sand Creek	26.02	R	5a	2012	I	N				N	X		N		I				
OK620920050060_00	Selman Creek	10.80	R	3	2016	I	I				I	X		I						
OK620920050070_00	Little Buffalo Creek	3.72	R	3	2016	I	I				I	X		X						
OK620920050080_00	Buffalo Aqueduct	6.59	R	3	2016	X	X				X	X		X						
OK620920050090_00	Doby Springs Park Branch!	1.01	R	3	2016	I	I				I	X		X						
OK620920050100_00	Doby Springs Creek!	8.40	R	3	2016	X	X				X	X		X						
OK620930000010_00	Cimarron River	37.66	R	5a	2016	F	F				N	N		N		I				
OK620930000020_00	Snake Creek	15.71	R	3	2016	X	X				X	X		X		X				
OK620930000030_00	Redoubt Creek	19.41	R	3	2016	I	I				I	X		X		X				
OK620930000040_00	Old Settlers Irrigation Ditch	15.12	R	3	2016	X	I				X	X		X						
OK620930000050_00	Stink Creek	7.63	R	3	2016	X	X				X	X		X						
OK620930000060_00	Horse Creek	12.79	R	2	2016	X	X				X	X			X		F			
OK620930000070_00	Horse Creek, West Fork	8.35	R	3	2016	X	X				X	X		X						
OK620930000090_00	Gate Lake	1	L	3	2016	X	X				X	X		X						

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OK620930000100_00	Crooked Creek	6.38	R	5a	2012	F	F				N	X		N		I				
OK620930000110_00	Cottonwood Creek	7.40	R	3	2016	X	X				X	X		X		X				
OK620930000120_00	Taintor Creek	7.30	R	2	2016	X	F				I	X		I						
OK620930000130_00	Forgan Creek, West	7.90	R	3	2016	X	X				X	X		X						
OK621000010010_00	Arkansas River, Salt Fork	10.72	R	3	2016	X	X				X	X		X		X				
OK621000010010_10	Arkansas River, Salt Fork	8.21	R	3	2016	X	X				X	X		X		X				
OK621000010010_20	Arkansas River, Salt Fork	5.41	R	3	2016	X	X				X	X		X		X				
OK621000010010_30	Arkansas River, Salt Fork	34.45	R	5a	2012	F	F				N	N		N		F				
OK621000010020_00	Deadman Creek	3.24	R	3	2016	I	I				I	X		X						
OK621000010030_00	Conoco Creek	4.69	R	3	2016	X	X				X	X		X						
OK621000010050_00	Cowskin Creek	11.71	R	3	2016	I	I				I	X		X		I				
OK621000010060_00	Bird's Nest Creek	22.54	R	3	2016	I	I				I	X		X		I				
OK621000010070_00	Horseshoe Lake Creek	3.52	R	3	2016	I	I				I	X		X		I				
OK621000010080_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						
OK621000010090_00	Tonkawa Creek	3.38	R	3	2016	X	X				X	X		X						
OK621000010100_00	Unnamed Tributary (Deer)	0.42	R	3	2016	X	X				X	X		X		X				
OK621000010110_00	Eddy Creek	6.64	R	3	2016	I	I				I	X		X		I				
OK621000010120_00	Boggy Creek	8.72	R	3	2016	X	X				X	X		X						
OK621000010130_00	Red Bird's Nest Creek	3.40	R	3	2016	I	I				I	X		X						
OK621000010140_00	Tonkawa Creek	2.56	R	3	2016	I	I				I	X		X						
OK621000020010_00	Arkansas River, Salt Fork	33.55	R	2	2016	I	F				I	X		X		I				
OK621000020010_10	Arkansas River, Salt Fork	8.22	R	3	2014	X	X				X	X		X						

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OK621000020030_00	Negro Creek	5.42	R	3	2016	X	X				X	X		X						
OK621000020040_00	Wild Horse Creek	24.66	R	5c	2012	F	N				F	X		I						
OK621000020050_00	Sand Creek	16.15	R	3	2016	X	X				X	X		X						
OK621000020060_00	Kremlin Creek	9.88	R	3	2016	X	X				X	X		X						
OK621000020080_00	Hellums Lake	6	L	3	2016	X	X				X	X		X						
OK621000020090_00	Four Corners Creek	5.55	R	3	2016	X	X				X	X		X						
OK621000020100_00	Ninemile Creek	11.27	R	3	2016	I	I				I	X		X						
OK621000020110_00	Ninemile Canyon Creek	1.36	R	3	2016	X	X				X	X		X						
OK621000020120_00	Little Pond Creek	5.90	R	3	2016	X	X				X	X		X						
OK621000020130_00	Spring Creek	6.14	R	5a	2016	F	F				I	X		N						
OK621000020140_00	Three Lakes Creek	1.30	R	3	2016	X	X				X	X		X						
OK621000020150_00	Three Lake	1	L	3	2016	X	X				X	X		X						
OK621000020160_00	Coldwater Creek	25.80	R	3	2016	I	I				I	X		X						
OK621000020170_00	Sand Creek	18.77	R	3	2016	I	X				I	X		X						
OK621000020180_00	Little Nash Creek	3.14	R	3	2016	X	X				X	X		X						
OK621000020190_00	Nash Creek	12.38	R	3	2016	X	X				X	X		X						
OK621000020200_00	Wagon Creek	24.12	R	3	2016	I	X				I	X		X		X				
OK621000020210_00	Wagon Creek, Unnamed Trib of	5.15	R	3	2016	X	X		X						X					
OK621000030010_00	Bois d' Arc Creek	36.88	R	4a	2015	F	F				F	X		N		I				
OK621000030020_00	Santa Fe Creek	3.86	R	3	2016	X	X				X	X		X						
OK621000030040_00	Cattle Creek, East	10.28	R	2	2016	F	F				I	X		X		I				
OK621000030050_00	Cattle Creek, West	8.56	R	5a	2016	I	N				I	X		X		I				

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OK621000030060_00	Kildare Creek	5.90	R	3	2016	X	X				X	X		X						
OK621000030070_00	Spring Creek	2.13	R	2	2016	X	X				X	X		X			F			
OK621000030080_00	Kildare Creek, North	4.95	R	3	2016	I	I				I	X		X		I				
OK621000030090_00	Spring Creek	3.40	R	2	2016	I	I				I	X		X			F			
OK621000030100_00	Newkirk Creek	4.49	R	3	2016	X	X				X	X		X						
OK621000030110_00	Spring Creek	2.52	R	2	2016	X	X		X			X			X		F			
OK621000030110_10	Spring Creek	3.54	R	2	2016	X	X				X	X		X			F			
OK621000040010_00	Deer Creek	40.81	R	5a	2012	I	F				N	X		N		I				
OK621000040020_00	Thompson Creek	14.17	R	3	2016	X	X				X	X		X						
OK621000040030_00	Peters Creek	9.44	R	3	2016	X	X				X	X		X						
OK621000040040_00	Nardin Creek	8.74	R	3	2016	X	X				X	X		X						
OK621000040050_00	Big Antelope Creek	13.42	R	3	2016	X	X				X	X		X						
OK621000040060_00	Little Antelope Creek	10.63	R	3	2016	X	X				X	X		X						
OK621000040070_00	Dry Creek	9.57	R	2	2016	I	F				I	X		X		I				
OK621000050010_00	Pond Creek	60.22	R	4a	2015	I	F				F	X		N		I				
OK621000050020_00	Spring Creek	8.14	R	3	2016	X	X				X	X		X						
OK621000050030_00	Polecat Creek	29.10	R	3	2016	X	X				X	X		X		X				
OK621000050040_00	Deadman Creek	8.22	R	3	2016	X	X				X	X		X						
OK621000050050_00	Cottonwood Creek	14.27	R	3	2016	X	X				X	X		X						
OK621000050060_00	Elm Creek	9.82	R	3	2016	X	X				X	X		X						
OK621000050070_00	Renfrow Creek	5.83	R	3	2016	X	X				X	X		X						
OK621000050080_00	Bullwacker Creek	20.23	R	2	2016	X	X		X			X			X		F			

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OK621000050090_00	Medford Creek	8.49	R	3	2016	X	X				X	X		X						
OK621000050100_00	Osage Creek	33.69	R	3	2016	X	X				X	X		X		X				
OK621000050110_00	Wakita Creek	7.57	R	3	2016	X	X				X	X		X						
OK621000050120_00	Deadman Creek, Unnamed Trib of	2.74	R	3	2017	X	X				X	X		X						
OK621000060010_00	Crooked Creek	32.88	R	5a	2012	F	F				F	X		N		I				
OK621000060020_00	Gilbert Creek	3.70	R	3	2016	X	X				X	X		X						
OK621000060030_00	Sand Creek	25.80	R	3	2016	X	I				I	X		X		X				
OK621000060040_00	Cooper Creek	9.26	R	3	2016	X	X				X	X		X						
OK621000060050_00	Lynch Creek	8.36	R	3	2016	X	X				X	X		X						
OK621000060060_00	Duel Creek	10.35	R	5c	2018	I	N				I	X		X						
OK621000060070_00	Gibbon Creek, North	11.13	R	3	2016	X	X				X	X		X						
OK621000060080_00	Manchester Creek	11.33	R	3	2016	X	X				X	X		X						
OK621000060090_00	Gibbon Creek, East	11.25	R	3	2016	X	X				X	X		X						
OK621010010010_00	Arkansas River, Salt Fork	17.34	R	5a	2012	I	N				N	X		F		I				
OK621010010020_00	Great Salt Plains Lake	8,690	L	5a	2014	I					N	X		N						
OK621010010050_00	Powell Creek	7.70	R	3	2016	I	I				I	X		X						
OK621010010060_00	Spring Creek	10.10	R	3	2016	X	X				X	X		X						
OK621010010070_00	Twin Creek	10.49	R	3	2016	X	X				X	X		X		X				
OK621010010080_00	Jet Creek	3.73	R	3	2016	X	X				X	X		X		X				
OK621010010090_00	Clay Creek	4.05	R	2	2012	X	X				X	X		X			F			
OK621010010100_00	Cottonwood Creek	21.81	R	3	2016	I	I				I	X		X						
OK621010010110_00	Clay Creek, East	15.17	R	3	2016	X	X				X	X		X		X				

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OK621010010110_10	Clay Creek, East	6.91	R	3	2016	X	X				X	X		X		X				
OK621010010120_00	Helena Creek	6.26	R	3	2016	X	X				X	X		X		X				
OK621010010130_00	Clay Creek, West	22.92	R	5a	2016	F	N				F	X		N		X				
OK621010010140_00	Lambert Creek	9.09	R	3	2016	X	X				X	X		X		X				
OK621010010160_00	Arkansas River, Salt Fork	14.96	R	5a	2012	F	F				N	F		N		F				
OK621010010180_00	Ingersoll Creek	10.61	R	3	2016	X	X				X	X		X		X				
OK621010010190_00	Ashley Creek, East	8.70	R	3	2016	X	X				X	X		X		X				
OK621010010200_00	Ashley Creek, West	4.34	R	3	2016	X	X				X	X		X		X				
OK621010010210_00	Capron Creek, South	11.41	R	3	2016	X	X				X	X		X		X				
OK621010010220_00	Arkansas River, Salt Fork	36.63	R	2	2016	I	F				I	X		X		I				
OK621010010230_00	Turkey Creek	20.80	R	5a	2012	F	N				F	X		N		I				
OK621010010240_00	Boggy Creek	16.43	R	5a	2018	I	N				I	X		X		I				
OK621010010250_00	Greenleaf Creek	19.53	R	3	2016	I	I				I	X		X		X				
OK621010010260_00	Hackberry Creek	1.96	R	3	2016	X	X				X	X		X		X				
OK621010010270_00	Yellowstone Creek	21.82	R	5a	2016	I	N				F	X		N		I				
OK621010020010_00	Sandy Creek	17.81	R	4a	2015	I	F				F	X		N		I				
OK621010020020_00	Little Church Creek	4.28	R	3	2016	X	X				X	X		X		X				
OK621010020030_00	Little Sandy Creek	9.82	R	3	2016	X	X				X	X		X		X				
OK621010020040_00	Salty Creek	4.47	R	3	2016	I	I				I	X		X		X				
OK621010020050_00	Rush Creek	3.59	R	3	2016	X	X				X	X		X		X				
OK621010030010_00	Medicine Lodge River	13.47	R	4a	2015	I	F				F	X		N		I				
OK621010030020_00	Byron Creek	6.11	R	3	2016	X	X				X	X		X		X				

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OK621010030030_00	Driftwood Creek	38.79	R	4a	2015	F	F				N	X		N		I				
OK621010030040_00	Dry Creek	10.30	R	3	2016	X	X				X	X		X		X				
OK621010030050_00	Little Driftwood Creek	9.75	R	3	2016	I	I				I	X		X		X				
OK621010030060_00	Loder Creek	4.35	R	3	2016	X	X				X	X		X		X				
OK621010030070_00	Little Mule Creek	6.36	R	3	2016	X	X				X	X		X		X				
OK621010030080_00	Capron Creek, North	8.09	R	5c	2018	I	N				I	X		X		I				
OK621010030090_00	Spring Creek	10.54	R	3	2016	X	X				X	X		X		X				
OK621010030100_00	Stink Creek	19.18	R	3	2016	X	X				I	X		X		X				
OK621100000010_00	Chikaskia River	5.39	R	4a	2015	I	F				F	X		N		I				
OK621100000010_10	Chikaskia River	23.11	R	5a	2012	F	F				F	N		N		I				
OK621100000010_20	Chikaskia River	12.81	R	5a	2016	I	F				F	X		N		F				
OK621100000020_00	Antwine Lake	20	L	3	2016	X	X				X	X		X						
OK621100000030_00	Duck Creek	25.78	R	5a	2018	F	I				I	X		N		F				
OK621100000033_00	Duckling Creek	4.85	R	3	2018	I	I				I	X		X		I				
OK621100000040_00	Peckham Creek	9.29	R	5b	2018	I	N				I	X		X		I				
OK621100000050_00	Stink Creek	15.93	R	3	2018	I	I				I	X		X		I				
OK621100000060_00	Lost Creek	15.40	R	3	2016	I	I				I	X		X						
OK621100000070_00	Grainville Creek	6.32	R	5a	2018	I	N				I	X		X						
OK621100000080_00	Wentz Lake Creek	1.45	R	3	2016	X	X				X	X		X						
OK621100000090_00	Wentz Lake	17	L	3	2016	X	X				X	X		X						
OK621100000100_00	Bitter Creek	23.33	R	5a	2016	I	N				F	X		N		I				
OK621100000110_00	Dry Creek	20.58	R	3	2016	X	X				X	X		X						

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OK621100000120_00	Braman Creek	10.52	R	3	2016	X	X				X	X		X						
OK621100000130_00	Scatter Creek	7.58	R	5c	2018	I	N				I	X		X		I				
OK621100000140_00	Sumpter Creek	6.90	R	3	2016	X	X				X	X		X						
OK621100000150_00	Bitter Creek, East	4.14	R	3	2016	X	X				X	X		X						
OK621100000160_00	Spring Creek	8.79	R	3	2016	X	X				X	X		X						
OK621100000180_00	Shoo Fly Creek	7.75	R	3	2016	X	X				X	X		X						
OK621100000190_00	Chikaskia River	7.89	R	3	2016	X	X				X	X		X		X				
OK621100000200_00	Blackwell Lake	53	L	3	2014	X	X				X	X		X						
OK621100000210_00	Blackwell Creek	5.02	R	3	2016	X	X				X	X		X						
OK621100000220_00	Sand Creek	5.88	R	3	2016	X	X				X	X		X						
OK621100000230_00	Bluff Creek	11.66	R	3	2016	X	X				X	X		X		X				
OK621100000240_00	Spring Creek	5.09	R	3	2016	X	X				X	X		X						
OK621100000250_00	Sullivan Branch	6.12	R	3	2016	X	X				X	X		X						
OK621200010020_00	Keystone Lake	3,980	L	5a	2012	F	F				N	X		I		I				
OK621200010025_00	Keywest Creek	1.86	R	2	2016	I	F				I	X		X		I				
OK621200010030_00	Bogy Creek	2.34	R	3	2016	X	X				X	X		X						
OK621200010040_00	Arkansas River	1.59	R	3	2016	X	X				I	X		X		X				
OK621200010050_00	Keystone Lake, Arkansas River Arm	9,491	L	5a	2012	I	F				N	X		I		I				
OK621200010060_00	Mud Creek	4.53	R	3	2016	X	X				X	X		X						
OK621200010070_00	Rock Creek	2.59	R	3	2016	X	X				X	X		X						
OK621200010080_00	Walnut Creek	2.90	R	3	2016	X	X				X	X		X						
OK621200010090_00	Waresha Creek	2.63	R	3	2016	X	X				X	X		X						

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OK621200010100_00	Little Waresha Creek	2.31	R	3	2016	X	X				X	X		X						
OK621200010110_00	Cowskin Creek	5.36	R	3	2016	X	X				X	X		X						
OK621200010120_00	Bear Creek	5.40	R	3	2016	X	X				X	X		X						
OK621200010130_00	Mill Creek	2.86	R	3	2016	X	X				X	X		X						
OK621200010140_00	Vandruuff Creek	4.01	R	3	2016	X	X				X	X		X						
OK621200010150_00	Mechetsemoi Creek	4.22	R	3	2016	X	X				X	X		X						
OK621200010160_00	Osage Creek	4.44	R	3	2016	X	X				X	X		X						
OK621200010170_00	Cedar Creek	7.02	R	3	2016	X	X				X	X		X						
OK621200010180_00	Scanlon Creek	3.48	R	3	2016	X	X				X	X		X						
OK621200010190_00	Black Dog Creek	4.69	R	3	2016	X	X				X	X		X						
OK621200010200_00	Arkansas River	37.49	R	5a	2012	I	F				N	N		N		I				
OK621200010210_00	Sand Creek	3.08	R	3	2016	X	X				X	X		X						
OK621200010220_00	Ghost Hollow Creek	2.85	R	3	2016	X	X				X	X		X						
OK621200010230_00	Ranch Creek	2.31	R	3	2016	X	X				X	X		X						
OK621200010240_00	Turkey Creek	2.29	R	3	2016	X	X				X	X		X						
OK621200010250_00	Carpenter Creek	4.60	R	3	2016	X	X				X	X		X						
OK621200010260_00	Ranch Creek	6.99	R	3	2016	X	X				X	X		X		X				
OK621200010270_00	Cleveland Lake	159	L	5a	2016	N	F				N	X		F		F				
OK621200010280_00	Ranch Creek, West Branch	7.00	R	3	2016	X	X				X	X		X						
OK621200010300_00	Maramec Lake	28	L	3	2016	X	X				X	X		X						
OK621200010310_00	Hellroaring Creek	9.95	R	3	2016	X	X				X	X		X						
OK621200010320_00	Bug Creek	11.54	R	3	2016	X	X				X	X		X		X				

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OK621200010330_00	Harper Creek	4.77	R	3	2016	X	X				X	X		X						
OK621200010350_00	Sycamore Creek	11.54	R	3	2016	X	X				X	X		X						
OK621200010360_00	Dry Creek	5.06	R	3	2016	X	X				X	X		X						
OK621200010370_00	Spring Creek	3.90	R	3	2016	X	X				X	X		X						
OK621200010380_00	Coal Creek	11.79	R	3	2016	X	X				X	X		X						
OK621200010390_00	Coon Creek	5.40	R	3	2016	X	X				X	X		X						
OK621200010400_00	Gray Horse Creek	15.94	R	4a	2012	F	F				F	X		N						
OK621200010410_00	Lucy Creek	9.00	R	3	2016	X	X				X	X		X						
OK621200010420_00	Eagle Creek	5.56	R	3	2016	X	X				X	X		X						
OK621200020010_00	Arkansas River	4.92	R	3	2016	X	X				X	X		X		X				
OK621200020010_10	Arkansas River	14.80	R	3	2016	X	X				X	X		X		X				
OK621200020010_20	Arkansas River	0.86	R	3	2016	X	X				X	X		X		X				
OK621200020010_30	Arkansas River	24.60	R	3	2016	X	X				X	X		X		X				
OK621200020010_40	Arkansas River	6.73	R	3	2016	X	X				X	X		X		X				
OK621200020010_50	Arkansas River	10.33	R	3	2016	X	X				I	I		X		I				
OK621200020020_00	Doga Creek	9.85	R	4a	2012	F	F				F	X		N		I				
OK621200020030_00	Clear Creek	7.41	R	3	2016	X	X				X	X		X						
OK621200020040_00	Doga Creek, East Fork	4.97	R	3	2016	X	X				X	X		X		X				
OK621200020050_00	Doga Creek, West Fork	2.70	R	3	2016	X	X				X	X		X		X				
OK621200020060_00	Doga Creek, Middle Fork	4.80	R	3	2016	X	X				X	X		X		X				
OK621200020070_00	Bedford Creek	3.67	R	3	2016	X	X				X	X		X						
OK621200020080_00	Mud Creek	5.76	R	3	2016	X	X				X	X		X						

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OK621200020090_00	Brush Creek	4.52	R	3	2016	X	X				X	X		X						
OK621200020100_00	Rock Creek	9.39	R	3	2016	X	X				X	X		X						
OK621200020110_00	Greasy Creek	4.14	R	3	2016	X	X				X	X		X						
OK621200020120_00	Watchorn Creek	5.86	R	3	2016	X	X				X	X		X						
OK621200020130_00	Sooner Lake	5,400	L	2	2014	F	F				I	X		F						
OK621200020150_00	Big Drum Creek	7.43	R	3	2016	X	X				X	X		X						
OK621200020160_00	Little Drum Creek	7.57	R	3	2016	X	X				X	X		X						
OK621200020170_00	Prettyhair Creek	5.59	R	3	2016	X	X				X	X		X						
OK621200020180_00	Simpkins Creek	5.16	R	3	2016	X	X				X	X		X						
OK621200020190_00	Turkey Creek	2.65	R	3	2016	X	X				X	X		X		X				✓
OK621200020200_00	Turkey Creek, West Ponca Lake Branch	6.67	R	3	2016	X	X				X	X		X		X				✓
OK621200020210_00	Lake Ponca	403	L	5a	2012	F	F				N	X		F		N				✓
OK621200020220_00	Turkey Creek, East Ponca Lake Branch	3.34	R	3	2016	X	X				X	X		X		X				✓
OK621200020250_00	Indian Hills Lake	1	L	3	2016	X	X				X	X		X						
OK621200020260_00	Coon Creek (Dry)	6.16	R	3	2016	X	X				X	X		X						
OK621200020270_00	Charley Creek	9.53	R	3	2016	X	X				X	X		X						
OK621200030010_00	Black Bear Creek	68.02	R	5a	2012	F	F				N	N		N		I				
OK621200030020_00	Little Crystal Creek	2.46	R	3	2016	X	X				X	X		X						
OK621200030030_00	Crystal Creek	8.04	R	3	2016	X	X				X	X		X						
OK621200030040_00	Camp Creek	23.09	R	5a	2016	F	F				N	X		I		I				
OK621200030060_00	Lone Chimney Lake	550	L	5a	2016	F	F				N	X		I		F				
OK621200030070_00	Pawnee Creek	4.77	R	3	2016	X	X				X	X		X						

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OK621200030080_00	Skedee Creek	2.00	R	3	2016	X	X				X	X		X		X				✓
OK621200030090_00	Skedee Creek	5.31	R	3	2016	X	X				X	X		X		X				✓
OK621200030100_00	Pawnee Lake	257	L	5a	2016	N	F				N	X		F		N				✓
OK621200030110_00	Little Skedee Creek	3.24	R	3	2016	X	X				X	X		X		X				✓
OK621200030120_00	Feaster Lake Creek	2.24	R	3	2016	X	X				X	X		X		X				✓
OK621200030130_00	Feaster Lake	7	L	3	2016	X	X				X	X		X						
OK621200030140_00	Pepper Creek	6.76	R	3	2016	X	X				X	X		X						
OK621200030150_00	Peters Creek	4.47	R	3	2016	X	X				X	X		X						
OK621200030160_00	Turkey Creek	6.60	R	3	2016	X	X				X	X		X						
OK621200030170_00	Panther Creek	6.73	R	3	2016	X	X				X	X		X						
OK621200030180_00	Lion Creek	5.30	R	3	2016	X	X				X	X		X						
OK621200030190_00	Oak Creek	9.88	R	3	2016	X	X				X	X		X		X				
OK621200030195_00	Oak Creek, Unnamed Trib of	4.56	R	3	2016	X	X				X	X		X						
OK621200030200_00	Long Branch	20.66	R	3	2016	X	X				X	X		X						
OK621200030208_00	Upper Black Bear Creek Site 5 Reservoir	12	L	3	2016	X	X				X	X		X						
OK621200030210_00	Otoe Creek	5.76	R	3	2016	X	X				X	X		X						
OK621200030220_00	Spring Creek	6.43	R	3	2016	X	X				X	X		X						
OK621200030230_00	Mule Creek	8.63	R	3	2016	X	X				X	X		X		X				
OK621200030240_00	Willow Creek	7.50	R	3	2016	X	X				X	X		X						
OK621200030250_00	Elm Creek	8.28	R	3	2016	X	X				X	X		X						
OK621200030260_00	Black Bear Creek	17.16	R	2	2016	I	F				I	X		X		I				
OK621200030260_10	Black Bear Creek	11.65	R	5c	2016	I	N				I	X		X						

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OK621200030260_20	Black Bear Creek	18.22	R	2	2016	I	F				I	X		X						
OK621200030270_00	Cow Creek	12.97	R	5a	2016	I	X				I	X		N		I				
OK621200030290_00	Wills Lake	5	L	3	2016	X	X				X	X		X						
OK621200030300_00	Perry Lake Park Creek	1.97	R	3	2016	X	X				X	X		X						
OK621200030310_00	Perry Lake Park Lake	6	L	3	2016	X	X				X	X		X						
OK621200030320_00	Calf Creek	4.01	R	3	2016	X	X				X	X		X						
OK621200030330_00	Little Cow Creek	2.91	R	3	2016	X	X				X	X		X						
OK621200030340_00	Cow Creek	7.48	R	3	2016	I	X				I	X		X		I				✓
OK621200030350_00	Perry Lake	614	L	5a	2016	N	F				N	X		F		F				✓
OK621200030360_00	Gansel Creek	7.36	R	3	2018	I	I				I	X		X						
OK621200030370_00	Warren Creek	8.16	R	3	2016	X	X				X	X		X						
OK621200030380_00	Warren Creek, East	5.13	R	3	2016	X	X				X	X		X						
OK621200030390_00	Warren Creek, West	4.99	R	2	2016	I	F				F	X		X		X				
OK621200030396_00	Lucien Creek	3.62	R	5c	2016	F	N				F	X		X		X				
OK621200030400_00	Turkey Creek	3.60	R	3	2016	X	X				X	X		X						
OK621200030410_00	Panther Creek	11.80	R	3	2016	X	X				X	X		X						
OK621200030420_00	Garber Creek	5.62	R	5c	2018	I	N				I	X		X						
OK621200030430_00	Crow Creek	5.09	R	3	2016	I	I				I	X		X						
OK621200030440_00	Olive E!	2.42	R	3	2016	I	I				I	X		X						
OK621200030450_00	Olive W!	3.02	R	3	2016	I	I				I	X		X						
OK621200030460_00	Olive	2.05	R	3	2016	I	I				I	X		X						
OK621200030470_00	Yogi	1.89	R	3	2016	I	I				I	X		X						

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OK621200030480_00	Garber Trib A!	1.86	R	3	2016	I	I				I	X		X						
OK621200030490_00	Garber Field!	3.42	R	5c	2018	I	N				I	X		X						
OK621200030500_00	St. John!	2.58	R	5c	2018	I	N				I	X		X						
OK621200030510_00	Shale!	2.54	R	5c	2018	I	N				I	X		X						
OK621200030520_00	Lincoln!	5.38	R	3	2016	I	I				I	X		X						
OK621200030530_00	Lutheran E!	0.89	R	3	2016	I	I				I	X		X						
OK621200030540_00	Lutheran mid. Branch	1.87	R	3	2016	I	I				I	X		X						
OK621200030550_00	Lutheran W!	2.27	R	3	2016	I	I				I	X		X						
OK621200030560_00	Lutheran!	2.76	R	5c	2018	I	N				I	X		X						
OK621200030570_00	Fozzie!	1.99	R	3	2016	I	I				I	X		X						
OK621200040010_00	Salt Creek	17.29	R	4a	2012	F	F				F	X		N		I				
OK621200040010_10	Salt Creek	43.97	R	4a	2012	I	F				F	X		N		I				
OK621200040020_00	Threemile Canyon Creek	3.81	R	3	2016	X	X				X	X		X						
OK621200040030_00	Wild Creek	5.74	R	3	2016	X	X				X	X		X		X				✓
OK621200040040_00	Fairfax Lake	111	L	2	2016	F	F				I	X		F		F				✓
OK621200040050_00	Tate Creek	4.09	R	3	2016	X	X				X	X		X						
OK621200040060_00	Solomon Creek	5.98	R	3	2016	X	X				X	X		X						
OK621200040070_00	Little Chief Creek	13.18	R	2	2016	F	F				I	X		I		I				
OK621200040080_00	Lost Man Creek	6.72	R	3	2016	X	X				X	X		X						
OK621200040090_00	Wild Horse Creek	3.43	R	3	2016	X	X				X	X		X						
OK621200040100_00	Jim Creek	8.81	R	3	2016	X	X				X	X		X						
OK621200040110_00	Stewart Creek	4.40	R	3	2016	X	X				X	X		X						

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OK621200040120_00	Mud Creek	5.72	R	3	2016	X	X				X	X		X						
OK621200040130_00	Hay Creek	7.08	R	3	2016	X	X				X	X		X						
OK621200040140_00	Webb City Creek	2.62	R	3	2016	X	X				X	X		X						
OK621200040150_00	Shidler Creek	3.06	R	3	2016	X	X				X	X		X						
OK621200040160_00	Rock Creek	0.30	R	3	2016	X	X				X	X		X						
OK621200040170_00	Rock Creek	5.54	R	3	2016	X	X				X	X		X		X				✓
OK621200040180_00	Phillips Lake (Shidler)	1	L	3	2016	X	X				X	X		X		X				✓
OK621200040190_00	Potato Creek	6.46	R	3	2016	X	X				X	X		X						
OK621200040200_00	Wamsley Creek	5.77	R	3	2016	X	X				X	X		X						
OK621200040210_00	Elm Creek	12.08	R	3	2016	X	X				X	X		X		X				
OK621200040220_00	Dugout Creek	9.12	R	3	2016	X	X				X	X		X						
OK621200040230_00	Antelope Creek	7.35	R	3	2016	X	X				X	X		X						
OK621200040240_00	Adams Lake Creek	1.33	R	3	2016	X	X				X	X		X						
OK621200040250_00	Adams Lake	63	L	3	2016	X	X				X	X		X						
OK621200040260_00	Grainola Creek	2.89	R	3	2016	X	X				X	X		X						
OK621200040270_00	Salt Creek, Unnamed Trib of	3.00	R	3	2016	X	X		X						X					
OK621200050010_00	Red Rock Creek	36.92	R	4a	2015	I	F				N	X		N						
OK621200050010_10	Red Rock Creek	46.89	R	5a	2016	F	N				N	X		N						
OK621200050020_00	Cat Creek	2.50	R	3	2016	X	X				X	X		X						
OK621200050030_00	Houston Creek	4.20	R	3	2016	X	X				X	X		X						
OK621200050040_00	Coon Creek	5.29	R	3	2016	X	X				X	X		X						
OK621200050050_00	Long Creek	10.44	R	3	2016	X	X				X	X		X						

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OK621200050060_00	Bird Creek	7.05	R	3	2016	X	X				X	X		X						
OK621200050070_00	Marland Creek	7.07	R	3	2016	X	X		X						X					
OK621200050080_00	Squaw Creek	8.01	R	3	2016	X	X				X	X		X						
OK621200050090_00	Skinny Creek	13.02	R	3	2016	I	I				I	X		X						
OK621200050100_00	Cottonwood Creek	7.35	R	3	2016	X	X				X	X		X						
OK621200050110_00	Perry Air Creek	9.34	R	3	2016	X	X				X	X		X						
OK621200050120_00	Ceres Creek	4.69	R	3	2016	X	X				X	X		X						
OK621200050130_00	Little Hackberry Creek	9.69	R	3	2016	X	X				X	X		X						
OK621200050140_00	Hackberry Creek	13.28	R	3	2016	X	X				X	X		X						
OK621200050150_00	Dean Creek	8.47	R	3	2016	X	X				X	X		X						
OK621200050160_00	Grassy Creek	11.30	R	3	2016	X	X				X	X		X						
OK621200050170_00	Doe Creek	6.66	R	3	2016	X	X				X	X		X						
OK621200050180_00	Bunch Creek	12.43	R	3	2016	X	X				X	X		X						
OK621200050190_00	Billings Creek	4.70	R	3	2016	X	X				X	X		X						
OK621200050200_00	Monkey Creek	8.91	R	3	2015	I	I				I	X		X						
OK621200050210_00	Elkhorn Creek	10.91	R	2	2016	I	F				I	X		X						
OK621200050220_00	Ranch Creek	4.04	R	3	2016	X	X				X	X		X						
OK621200050230_00	Hereford Creek	10.46	R	3	2016	X	X				X	X		X						
OK621200050240_00	Wolf Creek	4.74	R	3	2016	X	X				X	X		X						
OK621200050250_00	Thompson Lake Creek	7.97	R	3	2016	X	X				X	X		X						
OK621200050260_00	Thompson Lake	1	L	3	2016	X	X				X	X		X						
OK621210000020_00	Kaw Lake, Lower	7,208	L	5a	2012	F	F				N	N		I		I				

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OK621210000030_10	Arkansas River	14.44	R	5a	2016	I	N				N	I		N		I				
OK621210000040_00	Kaw Lake, Upper	9,009	L	5a	2012	F	F				N	N		I		I				
OK621210000050_10	Beaver Creek	21.58	R	4a	2015	F	F				F	X		N		I				
OK621210000070_00	Aleck Creek	3.39	R	3	2016	X	X				X	X		X						
OK621210000080_00	Little Beaver Creek	13.04	R	3	2016	X	X				X	X		X						
OK621210000090_00	Canadian Creek	4.79	R	3	2016	X	X				X	X		X						
OK621210000100_00	Mud Creek	5.42	R	3	2016	X	X				X	X		X						
OK621210000110_00	Myers Creek	4.55	R	3	2016	X	X				X	X		X						
OK621210000120_00	Rabbit Creek	6.03	R	3	2016	X	X				X	X		X						
OK621210000130_00	Cooper Creek	1.83	R	3	2016	X	X				X	X		X						
OK621210000140_00	Haines Creek	4.31	R	3	2016	X	X				X	X		X						
OK621210000150_00	Bayliss Creek	3.46	R	3	2016	X	X				X	X		X						
OK621210000160_00	Otter Creek	6.00	R	3	2016	X	X				X	X		X						
OK621210000170_00	Lone Tree Creek	1.34	R	3	2016	X	X				X	X		X						
OK621210000180_00	Spring Creek	2.41	R	3	2016	X	X				X	X		X						
OK621210000190_00	Coon Creek	5.82	R	3	2016	X	X				X	X		X						
OK621210000200_00	Bear Creek	5.41	R	3	2016	X	X				X	X		X						
OK621210000210_00	Sweetwater Creek	7.01	R	3	2016	X	X				X	X		X						
OK621210000220_00	Wolf Creek	7.60	R	3	2016	X	X				X	X		X						
OK621210000230_00	Newkirk Country Club Lake	41	L	3	2016	X	X				X	X		X						
OK621210000240_00	Deer Creek	8.70	R	3	2016	X	X				X	X		X						
OK621210000260_00	Newkirk Lake	21	L	3	2016	X	X				X	X		X						

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OK621210000270_00	Chilocco Creek	16.31	R	4a	2015	F	F				N	X		N						
OK621210000275_00	Rockford Creek	4.56	R	3	2016	X	X				X	X		X						
OK621210000280_00	Osage Creek	5.49	R	3	2016	X	X				X	X		X						
OK621210000290_00	Little Osage Creek	4.45	R	3	2016	X	X				X	X		X						

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OK720500010010_00	Canadian River, North	37.36	R	5a	2012	F	F				F	N		N		F				
OK720500010020_00	Canton Lake	7,910	L	5a	2014	F	F				N	X		F		F				
OK720500010030_00	Red Bluff Cut Off Lake	1	L	3	2016	X	X				X	X		X						
OK720500010040_00	Cheyenne Creek	5.75	R	3	2016	X	X				X	X		X		X				
OK720500010050_00	Seiling Creek	7.13	R	3	2016	I	I				I	X		X						
OK720500010060_00	Deep Creek	12.11	R	3	2016	I	I				I	X		X		X				
OK720500010070_00	Bent Creek	18.13	R	5a	2016	F	N				F	X		N		I				
OK720500010080_00	Camp Creek	8.53	R	3	2016	I	I				I	X		X		X				
OK720500010090_00	Kizer Creek	15.94	R	3	2016	X	X				X	X		X		X				
OK720500010100_00	Kizer Creek, North	9.63	R	3	2016	X	X				X	X		X						
OK720500010110_00	Cottonwood Creek	10.18	R	3	2016	X	X				X	X		X		X				
OK720500010120_00	Cottonwood Creek, North	6.29	R	3	2016	X	X				X	X		X						
OK720500010130_00	Mutual Creek	7.02	R	3	2016	X	X				X	X		X						
OK720500010140_00	Canadian River, North	18.55	R	3	2016	X	X				X	X		X		X				
OK720500010140_10	Beaver River (North Canadian)	11.50	R	5a	2012	F	F				F	F		N						
OK720500010140_20	Canadian River, North	22.64	R	2	2016	I	F				I	X		X						
OK720500010150_00	Persimmon Creek	13.45	R	5a	2016	I	F				F	X		N		I				
OK720500010160_00	Hackberry Creek	10.01	R	3	2016	X	X				X	X		X						
OK720500010170_00	Persimmon Creek, North	20.42	R	3	2016	X	X				X	X		X		X				
OK720500010180_00	Persimmon Creek, South	10.39	R	3	2016	X	X				X	X		X		X				
OK720500010190_00	Sand Creek	9.78	R	3	2016	X	X				X	X		X						
OK720500010200_00	Indian Creek	17.03	R	5a	2012	I	F				F	X		N		I				

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OK720500010210_00	Mooreland Creek	4.00	R	3	2016	X	X				X	X		X						
OK720500010220_00	Bull Creek	5.23	R	3	2016	X	X				X	X		X						
OK720500010230_00	Boggy Creek	4.64	R	3	2016	X	X				X	X		X						
OK720500010240_00	Boiling Springs Creek	1.66	R	3	2016	X	X				X	X		X						
OK720500010250_00	Woodward Creek	5.46	R	3	2016	X	X				X	X		X						
OK720500010260_00	Crystal Beach Lake	10	L	3	2016	I	X				X	X		X						
OK720500010270_00	Spring Creek	6.42	R	3	2016	X	X				X	X		X						
OK720500010280_00	Field Station Lake	10	L	3	2016	I	X				X	X		X						
OK720500010290_00	Sand Creek	7.38	R	3	2016	I	I				I	X		I						
OK720500010300_00	Roundup Creek	2.31	R	3	2016	X	X				X	X		X						
OK720500020010_00	Beaver River (North Canadian)	40.07	R	5a	2012	F	F				F	N		N						
OK720500020030_00	Wolf Creek	5.57	R	5a	2016	I	F				N	X		N		X				✓
OK720500020040_00	Sand Creek	11.50	R	3	2016	X	X				X	X		X						
OK720500020050_00	Otter Creek	13.55	R	5a	2012	I	F				N	X		N		I				
OK720500020060_00	Otter Creek, East	9.65	R	3	2016	X	X				X	X		X						
OK720500020070_00	Clear Creek	29.74	R	5a	2012	F	F				N	I		N		I				
OK720500020080_00	Dry Prong Creek	9.37	R	3	2016	X	X				X	X		X						
OK720500020100_00	Spring Creek	6.67	R	5a	2016	F	F				N	X		N						
OK720500020110_00	Spring Creek, North Fork	6.15	R	3	2016	X	X				X	X		X						
OK720500020120_00	Spring Creek, South Fork	8.90	R	3	2016	X	X				X	X		X						
OK720500020130_00	Kiowa Creek	34.54	R	5a	2016	F	F				F	I		N		I				
OK720500020140_00	Beaver River (North Canadian)	38.96	R	5a	2012	F	N				N	N		N						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK720500020150_00	Camp Creek	18.91	R	3	2016	X	X				X	X		X		X				
OK720500020160_00	Sand Creek	19.45	R	3	2016	X	X				X	X		X		X				
OK720500020170_00	Indian Creek	11.92	R	3	2016	X	X				X	X		X						
OK720500020180_00	Don Jose Creek	9.12	R	3	2016	X	X				X	X		X						
OK720500020190_00	Coon Creek	18.37	R	3	2016	X	X				X	X		X		X				
OK720500020200_00	Kiowa Creek, North Fork	14.72	R	3	2016	X	X				X	X		X						
OK720500020210_00	Mexico Creek	9.42	R	3	2016	X	X				X	X		X		X				
OK720500020220_00	Evans Chambers Lake	80	L	3	2016	X	X				I	X		X						
OK720500020230_00	Kidds Creek	8.29	R	3	2016	X	X				X	X		X						
OK720500020240_00	Knowles Creek	7.21	R	3	2016	X	X				X	X		X						
OK720500020250_00	Duck Pond Creek	40.62	R	4a	2015	F	F				F	X		N		I				
OK720500020260_00	Camp Creek	13.29	R	3	2016	X	X				X	X		X		X				
OK720500020270_00	Spring Creek	7.19	R	3	2016	X	X				X	X		X						
OK720500020280_00	Timber Creek	8.02	R	3	2016	X	X				X	X		X						
OK720500020290_00	Beaver River (North Canadian)	31.37	R	5a	2012	F	N				N	N		N						
OK720500020300_00	Clear Creek	23.48	R	2	2012	F	F				F	X		F		F				
OK720500020310_00	Cottonwood Creek	11.82	R	3	2016	X	X				X	X		X		X				
OK720500020330_00	Clear Creek, South Fork	19.37	R	3	2016	X	X				X	X		X		X				
OK720500020340_00	Clear Creek, North Fork	25.35	R	3	2016	X	X				X	X		X		X				
OK720500020350_00	Spring Creek	11.22	R	3	2016	X	X				X	X		X						
OK720500020370_00	Beaver Pioneer Creek	7.25	R	3	2016	X	X				X	X		X						
OK720500020380_00	Home Creek	11.49	R	3	2016	X	X				X	X		X		X				

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OK720500020390_00	Sixmile Creek	23.85	R	3	2016	X	X				X	X		X		X				
OK720500020400_00	Dugout Creek	15.72	R	3	2016	X	X				X	X		X						
OK720500020410_00	Elm Creek	14.86	R	3	2016	X	X				X	X		X						
OK720500020420_00	Willow Creek	14.47	R	3	2016	X	X				X	X		X		X				
OK720500020430_00	Sharp Creek	11.57	R	3	2016	X	X				X	X		X		X				
OK720500020440_00	Short Creek	6.91	R	3	2016	X	X				X	X		X						
OK720500020450_00	Beaver River (North Canadian)	28.20	R	5a	2012	F	N				N	F		N						
OK720500020450_10	Beaver River (North Canadian)	2.59	R	3	2016	X	X				I	X		X						
OK720500020460_00	Jackson Creek	22.24	R	3	2016	X	X				X	X		X		X				
OK720500020470_00	Jackson Creek, East Fork	11.62	R	3	2016	X	X				X	X		X						
OK720500020480_00	Bull Creek	17.48	R	3	2016	X	X				X	X		X		X				
OK720500020490_00	Red Horse Creek	9.42	R	3	2016	X	X				X	X		X						
OK720500020500_00	Palo Duro Creek	15.84	R	5a	2016	I	N				N	I		N		I				
OK720500020500_10	Palo Duro Creek	4.40	R	5a	2012	F	F				N	X		N		I				
OK720500020510_00	Fulton Creek	17.51	R	3	2016	X	X				X	X		X		X				
OK720500020520_00	Sand Creek	8.60	R	3	2016	X	X				X	X		X		X				
OK720500020530_00	Chiquita Creek	15.03	R	3	2016	X	X				X	X		X		X				
OK720500020540_00	Webb Lake	1	L	3	2016	X	X				X	X		X						
OK720500020550_00	Cottonwood Creek	7.63	R	3	2016	X	X				X	X		X						
OK720500020560_00	Hachberry Creek	18.99	R	3	2016	X	X				X	X		X		X				
OK720500020570_00	Peacher Creek	4.61	R	3	2016	X	X				X	X		X						
OK720500020580_00	Sand Draw	5.62	R	3	2016	X	X				X	X		X						

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OK720500020590_00	Dry Creek	18.14	R	3	2016	X	X				X	X		X						
OK720500030010_00	Wolf Creek	43.05	R	2	2015	F	F				F	F		F		I				✓
OK720500030020_00	Fort Supply Lake	1,880	L	5a	2012	I	F				N	X		F		N				✓
OK720500030030_00	Eightmile Creek	11.39	R	3	2016	X	X				X	X		X						
OK720500030040_00	Turkey Creek	12.64	R	3	2016	X	X				X	X		X						
OK720500030050_00	Sixteenmile Creek	16.61	R	3	2016	X	X				X	X		X		X				✓
OK720500030060_00	Boggy Creek	18.50	R	3	2016	X	X				X	X		X						
OK720500030070_00	Little Wolf Creek	14.78	R	3	2016	X	X				X	X		X		X				✓
OK720500030080_00	Buzzard Creek	10.10	R	5a	2016	F	F				I	X		N		I				✓
OK720500030090_00	Twentyfivemile Creek	20.19	R	3	2016	I	I				I	X		X		X				✓
OK720500030100_00	Willow Creek	12.04	R	3	2016	X	X				X	X		X		X				✓
OK720500030110_00	Rock Creek	14.92	R	3	2016	X	X				X	X		X		X				✓
OK720500030130_00	Six Pony Creek	10.82	R	3	2016	X	X				X	X		X						
OK720500030140_00	Ivanhoe Creek	13.85	R	3	2016	X	X				X	X		X						
OK720500030150_00	Long Creek	11.75	R	3	2016	X	X				X	X		X						
OK720510000020_00	Beaver River (North Canadian)	4.60	R	3	2016	X	X				X	X		X		X				
OK720510000030_00	Optima Lake	5,340	L	3	2016	X	X				X	X		X						
OK720510000035_00	Ann Ruth's Stream	1.86	R	3	2016	X	X				X	X		X						
OK720510000040_00	Coldwater Creek	18.73	R	3	2016	X	X				X	X		X		X				
OK720510000050_00	Frisco Creek	18.38	R	3	2016	X	X				X	X		X						
OK720510000060_00	Frisco Creek, North Fork	18.47	R	3	2016	X	X				X	X		X						
OK720510000080_00	Aqua Fria Creek	21.11	R	3	2016	X	X				X	X		X						

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OK720510000090_00	Pony Creek	33.57	R	3	2016	X	X				X	X		X		X				
OK720510000100_00	Beaver River (North Canadian)	16.00	R	3	2016	X	X				X	X		X		X				
OK720510000110_00	Goff Creek	57.44	R	3	2016	X	X				X	X		X		X				
OK720510000115_00	Leftover creek	4.27	R	3	2016	X	X				X	X		X						
OK720510000120_00	Cow Creek	21.50	R	3	2016	X	X				X	X		X						
OK720510000140_00	Little Goff Creek	19.02	R	3	2016	X	X				X	X		X						
OK720510000150_00	Dry Sand Draw	14.12	R	3	2016	X	X				X	X		X						
OK720510000160_00	Sunset Lake	10	L	3	2016	X	X				X	X		X						
OK720510000190_00	Beaver River (North Canadian)	42.54	R	5a	2012	F	F				N	F		N		I				
OK720510000190_10	Beaver River (North Canadian)	55.81	R	3	2016	X	X				X	X		X		X		✓		
OK720510000200_00	Tepee Creek	32.17	R	3	2016	X	X				X	X		X		X				
OK720510000210_00	Spring Aroa Creek	9.75	R	3	2016	X	X				X	X		X						
OK720510000220_00	Sand Creek	40.78	R	3	2016	X	X				X	X		X		X				
OK720510000230_00	Sand Creek, North	13.38	R	3	2016	X	X				X	X		X						
OK720510000240_00	Cienequilla Creek	7.55	R	3	2016	X	X				X	X		X		X				
OK720510000275_00	Corrupa Creek	12.94	R	5a	2016	F	F				N	X		N		X		✓		
OK720900000010_00	Cimarron River	46.82	R	5a	2016	F	F				I	X		N		F		✓		
OK720900000020_00	Burrows Draw	4.90	R	3	2016	X	X				X	X		X						
OK720900000030_00	Nevitt Draw	5.84	R	3	2016	X	X				X	X		X						
OK720900000040_00	King Draw	3.69	R	3	2016	X	X				X	X		X						
OK720900000050_00	Picket House Draw, South	8.94	R	3	2016	X	X				X	X		X		X				
OK720900000060_00	Picket House Draw, North	7.30	R	3	2016	X	X				X	X		X						

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OK720900000070_00	Flagg Springs Creek	8.89	R	3	2016	X	X				X	X		X						
OK720900000080_00	Ute Canyon Creek	6.39	R	3	2016	X	X				X	X		X						
OK720900000100_00	Cold Springs Creek	29.19	R	5a	2016	F	I				N	X		I		I				
OK720900000110_00	Canyon Creek, North	6.36	R	3	2016	X	X				X	X		X						
OK720900000120_00	Red Canyon Creek	3.38	R	3	2016	X	X				X	X		X						
OK720900000130_00	Gallinas Canyon Creek	5.43	R	3	2016	X	X				X	X		X		X				
OK720900000140_00	Bingaman Canyon Creek	3.53	R	3	2016	X	X				X	X		X						
OK720900000150_00	Lane Canyon Creek	4.77	R	3	2016	X	X				X	X		X						
OK720900000160_00	Sand Canyon Creek	1.04	R	3	2016	X	X				X	X		X						
OK720900000170_00	Pat Canyon Creek	2.63	R	3	2016	X	X				X	X		X						
OK720900000180_00	Cimarron River	19.24	R	5a	2012	I	N				N	X		N		I		✓		
OK720900000190_00	Water Canyon Creek	8.22	R	3	2016	X	X				X	X		X		X				
OK720900000200_00	Carrizo Creek, South	19.55	R	5a	2016	I	I				N	X		I		I				
OK720900000210_00	Cottonwood Canyon Creek	8.28	R	3	2016	X	X				X	X		X		X				
OK720900000220_00	Willow Creek	8.81	R	3	2016	X	X				X	X		X						
OK720900000230_00	Swede Creek	7.23	R	3	2016	X	X				X	X		X						
OK720900000240_00	Carl Etling Lake	159	L	5a	2014	I	N				N	X		F		X				
OK720900000250_00	Easley Canyon Creek	4.49	R	3	2016	X	X				X	X		X						
OK720900000260_00	Tesesquite Creek	11.10	R	3	2016	X	X				X	X		X		X				
OK720900000270_00	Burrows Canyon Creek	2.07	R	3	2016	X	X				X	X		X						
OK720900000280_00	Carrizo Creek, North	7.15	R	2	2016	I	F				I	X		I		I				
OK720900000290_00	Road Canyon Creek	4.63	R	3	2016	X	X				X	X		X						

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OK720900000300_00	Coopers Arroyo Creek	3.69	R	3	2016	X	X				X	X		X						
OK720900000310_00	Blacksmith Canyon Creek	3.14	R	3	2016	X	X				X	X		X						
OK720900000320_00	Carrizozo Creek	1.03	R	3	2016	X	X				X	X		X		X				


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Appendix C

2012 Oklahoma 303(d) List of Impaired Waters


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK120400010070_00	Webbers Falls Lake	11,600.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Enterococcus	Primary Body Contact Recreation	46, 108, 136, 140		
OK120400010130_00	Greenleaf Lake	920.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK120400010260_00	Arkansas River	11.17 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK120400010400_00	Coody Creek	16.16 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK120400020010_00	Dirty Creek	44.18 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK120400020030_00	Dirty Creek, South Fork	15.55 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 62, 140		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	46, 49, 59, 62, 87, 92, 102, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 92, 108, 111, 133, 136, 140		
OK120400020110_00	Dirty Creek, Georges Fork	10.05 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK120400020160_00	Butler Creek	10.34 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK120400020190_00	Elk Creek	13.96 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 62, 85, 87, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 87, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK120400020240_00	Shady Grove Creek	10.80 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	8, 102, 140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK120410010100_00	Cloud Creek	4.77 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
OK120410010190_00	Bixhoma Lake	110.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
OK120410010210_00	Haikey Creek	10.90 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Diazinon	FWP - Warm Water Aquatic Community	140		
OK120420010010_00	Arkansas River	16.74 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	49, 62, 102, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 108, 140		
OK120420010010_10	Arkansas River	7.32 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Cadmium	FWP - Warm Water Aquatic Community	140		
OK120420010060_00	Fred Creek	2.87 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK120420010070_00	Mooser Creek	3.79 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK120420010090_00	Crow Creek	2.99 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	84, 140		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK120420010130_00	Arkansas River	12.65 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	49, 62, 102, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 108, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK120420010140_00	Bigheart Creek	4.48 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK120420010170_00	Harlow Creek	5.69 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK120420010250_00	Shell Lake	573.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK120420010340_00*	Little Joe Creek, Unnamed Trib of	2.19 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK120420020010_00	Polecat Creek	7.16 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease*	Aesthetic	140		
Oil and Grease*	FWP - Warm Water Aquatic Community	140		
OK120420020040_00	Nickel Creek	12.29 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 128, 133, 136, 140		
OK120420020060_00*	Rock Creek	4.05 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140		
OK120420020130_00	Sahoma Lake	312.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color*	Aesthetic	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK120420020160_00	Childres Creek	6.99 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK120420020300_00	Heyburn Lake	880.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121300010010_00	Bird Creek	23.81 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	49, 62, 102, 140		
Oil and Grease	Public and Private Water Supply	49, 62, 102, 140		
Turbidity	FWP - Warm Water Aquatic Community	49, 111, 140		
OK121300010050_00*	Mill Creek	3.68 MILES	5c	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK121300010090_00	Coal Creek	6.71 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK121300010120_00*	Flat Rock Creek	9.91 MILES	5c	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK121300010150_00	Delaware Creek	26.26 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Chloride	Agriculture	49, 140		
Enterococcus	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK121300020010_00	Bird Creek	4.24 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	85, 92, 156, 140		
Escherichia coli	Primary Body Contact Recreation	85, 92, 156, 140		
OK121300020190_00	Waxhoma Lake	197.00 ACRES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
OK121300030040_00	Birch Lake	1,137.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK121300030230_00	Pawhuska Lake	96.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121300030300_00	Bluestem Lake	762.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK121300040280_00	Hominy Creek	33.89 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 97, 102, 140		
Escherichia coli	Primary Body Contact Recreation	46, 85, 92, 108, 111, 133, 136, 140		
Total Dissolved Solids	Agriculture	49, 97, 102, 140		
OK121300040350_00	Hominy Lake	165.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK121400010270_00	Curl Creek	17.27 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK121400010300_00	Hogshooter Creek	20.02 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 108, 111, 136, 140		
OK121400020140_00	Little Caney River (Caney Creek)	5.52 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 108, 111, 133, 136, 140		
OK121400020190_00	Mission Creek	18.22 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK121400030020_00	Hulah Lake	3,570.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK121400030170_00	Buck Creek	22.22 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121400050020_00	Copan Lake	4,850.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Chlorophyll-a	Public and Private Water Supply	140		
OK121500020090_00	Bull Creek	17.55 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 100, 108, 133, 136, 140		
OK121500020150_00	Adams Creek	18.02 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 84, 92, 108, 111, 133, 136, 156, 140		
OK121500020360_00	Dog Creek	10.08 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK121500020390_00	Cat Creek	7.04 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	140		
Escherichia coli	Primary Body Contact Recreation	84, 85, 140		
Enterococcus	Primary Body Contact Recreation	84, 85, 140		
OK121500030010_00	Verdigris River	10.43 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity*	FWP - Warm Water Aquatic Community	38, 140		
OK121500040010_00	Dog Creek	16.87 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	84, 92, 156, 140		
OK121500040020_00	Claremore Lake	470.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
OK121510010020_00	Oologah Lake	29,460.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK121510010040_00	Spencer Creek	4.31 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
Total Dissolved Solids	Agriculture	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121510010110_00	Campbell Creek	3.79 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	56		
Total Dissolved Solids	Agriculture	56		
OK121510010120_00	Plumb Creek	5.52 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
Total Dissolved Solids	Agriculture	140		
Chloride*	Agriculture	140		
OK121510010130_00	Lightning Creek	14.40 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	92, 156, 140		
Sulfates	Agriculture	82, 127, 140		
Total Dissolved Solids	Agriculture	82, 127		
OK121510010140_00	Panther Creek	6.97 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	82, 140		
Total Dissolved Solids	Agriculture	82, 140		
OK121510020010_00	Verdigris River	37.43 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK121510020050_00	California Creek	25.39 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK121510030010_00	Big Creek	34.74 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK121600010050_00	Fort Gibson Lake	12,464.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 108, 133, 136, 140		
OK121600010060_00	Ranger Creek	7.94 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli*	Primary Body Contact Recreation	4, 46, 59, 92, 108, 111, 128, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 85, 87, 92, 108, 111, 128, 133, 136, 140		
OK121600010200_00	Fort Gibson Lake, Upper	4,814.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121600010280_00	Neosho River	14.26 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 62, 85, 92, 108, 133, 136, 140		
Lead	FWP - Warm Water Aquatic Community	62, 85, 140		
OK121600010290_00*	Spring Creek	39.70 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
OK121600010430_00	Chouteau Creek	22.25 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 136, 140		
OK121600020030_10	Saline Creek	28.12 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Cool Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Enterococcus	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 128, 133, 136, 140		
OK121600020050_00	WR Holway Reservoir (Chimney Rock Lake)	712.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK121600020070_00	Little Saline Creek	10.50 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 136, 140		
OK121600020170_00	Neosho River	10.89 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 62, 85, 108, 133, 136, 140		
OK121600030020_00	Grand Lake O' the Cherokees, Lower	10,051.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK121600030030_00	Grand Lake O' the Cherokees, Middle	19,584.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK121600030040_00	Grand Lake O' The Cherokees, Upper	8,670.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121600030160_00	Horse Creek	10.06 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Ammonia (Un-ionized)	FWP - Warm Water Aquatic Community	85, 92, 140		
Chloride	Agriculture	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	85, 92, 156, 140		
pH	FWP - Warm Water Aquatic Community	140		
OK121600030190_00	Little Horse Creek	6.46 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK121600030445_10	Honey Creek	4.64 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK121600030560_00	Lost Creek	10.23 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 85, 92, 133, 136, 146, 140		
OK121600040010_00	Neosho River	16.57 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 85, 140		
OK121600040040_00	Hudson Creek	8.28 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	4, 46, 59, 92, 108, 133, 136, 156, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 59, 92, 108, 133, 136, 156, 140		
OK121600040060_00	Tar Creek	11.67 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macroinvertebrate Bioasse:	FWP - Habitat Limited Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Lead	FWP - Habitat Limited Aquatic Community	16, 140		
OK121600040062_00	Blue Goose Mill Pond	5.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82		
OK121600040063_00	Northwest Western Chat Pile Pond	1.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82		
OK121600040064_00	Western Chat Pile Mill Pond	1.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82		
OK121600040105_00	Atlas Chat Pile Pond	10.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	82		

Cause Name* - Indicates new cause listing for 2012

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121600040130_00	Cow Creek	12.42 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 108, 133, 136, 140		
OK121600040170_00	Fourmile Creek	7.10 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 133, 136, 146, 140		
OK121600040200_00	Russell Creek	11.48 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
Sulfates	Agriculture	140		
OK121600040220_00	Neosho River	13.97 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 87, 92, 102, 108, 111, 136, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 49, 87, 92, 102, 108, 111, 136, 140		
Lead	Fish Consumption	49, 85, 140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	49, 85, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 108, 140		
OK121600050020_00	Spavinaw Lake	1,584.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	4, 59, 146, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 92, 108, 133, 136, 140		
OK121600050070_00	Eucha Lake (Upper Spavinaw)	2,860.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 59, 92, 108, 133, 136, 146, 140		
Chlorophyll-a	Public and Private Water Supply	4, 59, 146, 140		
OK121600050150_00	Spavinaw Creek	15.00 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 133, 136, 140		
OK121600050160_00	Beaty Creek	12.44 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 133, 136, 140		
OK121600050180_00	Cloud Creek	12.93 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK121600060060_10	Big Cabin Creek	4.16 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	49, 102, 140		
Sulfates	Agriculture	49, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121600060080_00	Little Cabin Creek	32.31 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 92, 108, 111, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 85, 92, 108, 136, 140		
Enterococcus	Primary Body Contact Recreation	46, 85, 92, 108, 136, 140		
Total Dissolved Solids	Agriculture	140		
OK121600060200_00	Bull Creek	10.83 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Escherichia coli	Primary Body Contact Recreation	4, 59, 62, 68, 84, 85, 92, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 59, 62, 68, 84, 85, 92, 140		
Sulfates	Agriculture	140		
Total Dissolved Solids	Agriculture	140		
OK121600060220_00	Big Cabin Creek	11.58 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 97, 140		
Total Dissolved Solids	Agriculture	49, 97, 140		
OK121600060240_00	Pawpaw Creek	18.40 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 133, 136, 156, 140		
Total Dissolved Solids	Agriculture	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 156, 140		
Sulfates	Agriculture	140		
OK121600070010_00	Spring River	22.11 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85		
Turbidity	FWP - Cool Water Aquatic Community	46, 108, 140		
OK121600070110_00	Fivemile Creek	5.81 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macroinvertebrate Bioasse:	FWP - Cool Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK121610000050_10	Pryor Creek	4.97 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 68, 85, 92, 108, 111, 128, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 68, 92, 108, 111, 128, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 92, 108, 111, 128, 133, 136, 140		
OK121610000090_00	Pryor Creek	2.35 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	84, 85, 92, 156, 140		
Turbidity	FWP - Warm Water Aquatic Community	156, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121700020020_00	Tenkiller Ferry Lake	8,442.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Phosphorus (Total)*	Aesthetic	140		
OK121700020110_00	Chicken Creek	3.54 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK121700020220_00	Tenkiller Ferry Lake, Illinois River Arm	5,032.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	4, 59, 108, 136, 146, 140		
Phosphorus (Total)	Aesthetic	4, 59, 108, 136, 146, 140		
OK121700030010_00	Illinois River	7.68 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	4, 46, 59, 92, 108, 133, 136, 146, 140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 85, 92, 100, 108, 146, 140		
OK121700030040_00	Tahlequah Creek (Town Branch)	6.21 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 133, 136, 140		
OK121700030080_00	Illinois River	31.68 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	4, 46, 59, 92, 108, 133, 136, 146, 140		
Lead	FWP - Cool Water Aquatic Community	140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 108, 133, 136, 146, 140		
OK121700030280_00	Illinois River	15.65 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 59, 85, 92, 100, 108, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 59, 85, 92, 100, 108, 136, 140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 92, 108, 133, 136, 146, 140		
Turbidity	FWP - Cool Water Aquatic Community	46, 59, 85, 108, 140		
OK121700030290_00	Flint Creek	1.60 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	4, 46, 59, 92, 108, 133, 136, 146, 140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 92, 108, 133, 136, 146, 140		
OK121700030350_00	Illinois River	5.18 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140		
Phosphorus (Total)	Aesthetic	4, 34, 46, 59, 92, 100, 133, 136, 146, 140		
Turbidity	FWP - Cool Water Aquatic Community	46, 59, 85, 108, 146, 140		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140		


Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK121700030370_00	Ballard Creek	12.60 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 111, 133, 136, 140		
OK121700040010_00	Caney Creek	20.92 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 92, 100, 108, 140		
OK121700050010_00	Illinois River, Baron Fork	25.15 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 59, 85, 92, 100, 108, 136, 140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 92, 108, 133, 136, 146, 140		
OK121700050090_00	Tyner Creek	15.92 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 136, 140		
OK121700050120_00	Peachester Creek	10.95 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 100, 108, 128, 136, 140		
OK121700050170_10*	Illinois River, Baron Fork	7.78 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 59, 92, 108, 136, 140		
OK121700060010_00	Flint Creek	7.75 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140		
Phosphorus (Total)	Aesthetic	4, 46, 59, 85, 92, 100, 108, 146, 140		
OK121700060040_00	Battle Creek (Battle Branch)	5.43 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 111, 133, 136, 140		
OK121700060080_00	Sager Creek	4.15 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 85, 92, 108, 133, 136, 146, 140		
OK220100010010_00	Poteau River	23.89 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 85, 140		
Lead	Fish Consumption	49, 85, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 108, 140		


NEW

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK220100010010_30	Poteau River	2.24 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Public and Private Water Supply	140		
Cadmium	FWP - Warm Water Aquatic Community	140		
Selenium	FWP - Warm Water Aquatic Community	140		
Silver	FWP - Warm Water Aquatic Community	140		
Copper	FWP - Warm Water Aquatic Community	140		
Lead	FWP - Warm Water Aquatic Community	140		
Lead	Fish Consumption	140		
OK220100010010_40	Poteau River	21.35 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Warm Water Aquatic Community	140		
Lead	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220100010050_00	New Spiro Lake	254.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
Chlorophyll-a	Public and Private Water Supply	140		
Color*	Aesthetic	140		
OK220100010180_00*	Caston Creek	14.43 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK220100020010_10	Poteau River	27.04 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
Enterococcus*	Primary Body Contact Recreation	46, 59, 85, 92, 100, 108, 136, 140		
OK220100020020_00	Wister Lake	7,333.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Chlorophyll-a	Public and Private Water Supply	140		
Color	Aesthetic	140		
Mercury*	Fish Consumption	140		
pH	FWP - Warm Water Aquatic Community	140		
Phosphorus (Total)	Aesthetic	140		
OK220100020040_00	Poteau River, Black Fork	28.60 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK220100020060_00	Cedar Lake	78.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	140		
OK220100030010_00	Brazil Creek	17.83 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 136, 140		
OK220100040020_00	Fourche Maline Creek	36.94 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 85, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 62, 69, 85, 87, 92, 108, 111, 133, 136, 140		
OK220100040050_00	Red Oak Creek	10.95 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 92, 108, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	140		
OK220100040080_00	Bandy Creek	12.44 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220100040100_00	Lloyd Church Lake (Wilburton City)	160.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220100040150_00	Wayne Wallace Lake	94.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	140		
OK220200010010_00	Arkansas River	20.59 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 92, 108, 136, 140		
OK220200010060_00*	Cache Creek	20.75 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK220200020020_00	Robert S. Kerr Lake	43,380.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK220200020040_00	Little Sallisaw Creek	17.59 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Warm Water Aquatic Community	140		
OK220200030010_10*	Sallisaw Creek	9.00 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		
OK220200030010_20	Sallisaw Creek	13.30 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 92, 108, 111, 128, 133, 136, 140		
OK220200030040_00	Brushy Creek Lake	358.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a*	Public and Private Water Supply	140		
pH	FWP - Warm Water Aquatic Community	140		
OK220200030120_00	Stilwell City Lake	188.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 108, 133, 136, 140		
OK220200040010_10	Sans Bois Creek	10.76 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
Enterococcus	Primary Body Contact Recreation	4, 46, 59, 85, 92, 108, 111, 133, 136, 140		
OK220200040010_40	Sans Bois Creek	27.80 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 59, 85, 92, 108, 133, 136, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220200040030_00	John Wells Lake (Stigler)	194.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
OK220200040050_00	Sans Bois Creek, Mountain Fork	13.63 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
OK220200050010_00	Lee Creek	1.87 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 133, 136, 146, 140		
Lead	FWP - Cool Water Aquatic Community	49, 146, 140		
OK220200050010_10	Lee Creek	15.66 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper*	FWP - Cool Water Aquatic Community	49, 140		
Lead	FWP - Cool Water Aquatic Community	49, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK220200050040_00	Little Lee Creek	23.66 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 133, 136, 140		
OK220600010050_00	Eufaula Lake, Canadian River Arm	19,040.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220600010070_10	Longtown Creek	12.14 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
OK220600010100_20	Mill Creek	24.16 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	140		
OK220600010119_10	Canadian River	39.08 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	49, 85, 140		
Lead	Fish Consumption	49, 85, 140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Sulfates	Agriculture	49, 140		
OK220600010130_00	Hay Creek	4.70 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	140		
Oil and Grease	FWP - Warm Water Aquatic Community	140		
OK220600020030_00	McAlester Lake	1,521.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Mercury*	Fish Consumption	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK220600020060_00	Talawanda 1 Lake	91.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
OK220600030010_00	Brushy Creek	2.96 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 108, 140		
Lead	Fish Consumption	49, 85, 140		
Oil and Grease	FWP - Warm Water Aquatic Community	49, 102, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	85, 92, 108, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK220600030050_00	Peaceable Creek	17.14 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 62, 140		
OK220600030080_00	Bull Creek	3.29 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Warm Water Aquatic Community	62		
Lead	FWP - Warm Water Aquatic Community	62		
Zinc	FWP - Warm Water Aquatic Community	62		
OK220600040010_00	Gaines Creek	38.22 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
Oil and Grease	Aesthetic	97, 140		
Oil and Grease	FWP - Warm Water Aquatic Community	97, 140		
Oil and Grease	Public and Private Water Supply	97, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
OK220600040030_00	Beaver Creek	9.11 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	156, 140		
pH	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
Oil and Grease	Aesthetic	97, 140		
Oil and Grease	FWP - Warm Water Aquatic Community	97, 140		
OK220600040040_00	Pit Creek	7.65 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	156, 140		
pH	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	2, 140		
OK220600050010_00	Eufaula Lake, Gaines Creek Arm	24,990.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		
OK310800010011_00	Texoma Lake, Washita River Arm, Lower	19,214.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310800010051_00	Old Channel (of Washita)	4.62 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800010090_00	Big Sandy Creek	13.57 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK310800010190_00*	Mill Creek	37.86 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	4, 46, 85, 92, 100, 108, 111, 128, 133, 136, 140		
OK310800010240_00	Oil Creek	19.47 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK310800020010_00	Washita River	31.58 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK310800020100_00	Arbuckle Lake (Lake of the Arbuckles)	2,350.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK310800020122_00*	Rock Creek	12.50 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK310800030010_06	Caddo Creek	16.82 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK310800030260_00	Russell Pretty Branch	5.17 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030265_00	Briar Branch	3.88 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030280_00	Pruitt Branch	4.97 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030285_00	Pruitt West Creek!	3.94 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310800030290_00	Russell Pretty Branch, Trib A!	1.00 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK310800030330_00	Caddo Creek, Clemscott Branch!	3.04 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030340_00	Briar Branch Trib.B!	1.16 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	102		
OK310800030350_00	Briar Branch Trib.A!	1.42 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride*	Agriculture	102		
OK310800030360_00	Caddo Creek, Fox Branch!	3.11 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030370_00	Caddo Creek Trib.!	3.34 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030380_00	Caddo Creek, North Branch	3.80 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030390_00	Caddo Creek North Branch Trib!	1.46 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310800030410_00	Caddo Creek North Fork Trib!	1.08 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810010010_10	Washita River	32.87 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK310810010020_00*	Wildhorse Creek	8.97 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK310810010090_10	Rush Creek	10.30 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310810010180_00	Pauls Valley Lake	750.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK310810010190_00	Washington Creek	6.49 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
OK310810010220_00	Maysville Lake (Wiley Post)	302.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK310810010270_00	Rush Creek, Trib G!	4.03 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810010280_00	Washita River Trib 14-1N-1E!	1.71 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	97		
OK310810020010_00	Washita River	63.16 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
Sulfates*	Agriculture	49, 102, 140		
OK310810020020_00	Finn Creek	14.15 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK310810020200_00	Laffin Creek	12.60 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		
OK310810020260_00	Stealy Creek!	5.15 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	70		
OK310810030010_00	Wildhorse Creek	22.30 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810030080_00*	Salt Creek	19.05 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride*	Agriculture	46, 102, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310810030130_00	Countyline Creek	4.44 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810030140_00	N. Pernell Creek, North	3.34 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810030145_00	Pernell Creek!	2.96 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810030160_00	Pernell Creek, Trib.B!	0.77 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810030180_00	Sandy Bear Creek, West Fork!	5.46 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030200_00	South Tatums!	1.57 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030210_00	Ratliff East Creek!	4.42 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030240_00	Ratliff West Creek! Trib.!	0.98 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030250_00	Countyline Creek Trib.3!	1.15 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030260_00	Wildhorse Creek Trib.B!	3.30 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810030270_00	Wildhorse Creek Trib. A!	2.09 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK310810040015_00	West County Line Creek	3.28 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810040020_00	Panther Creek	5.36 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>	
OK310810040050_00	Fuqua Lake	1,500.00 ACRES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
OK310810040120_00*	Clear Creek Lake (Chisholm)	722.00 ACRES	5a	2020	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Sulfates*	Agriculture	140			
OK310810040150_00	Humphreys Lake	882.00 ACRES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chlorophyll-a	Public and Private Water Supply	140			
OK310810040170_00*	Owens Creek	5.23 MILES	5a	2020	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140			
OK310810040180_00	West County Line Creek Trib.!	2.53 MILES	5c	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	140			
OK310810040200_00	Black Bear Trib 10!	2.65 MILES	5c	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
OK310810040230_00	Northwest Alma Creek	1.87 MILES	5c	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
OK310810040240_00	Velma East Creek!	3.96 MILES	5b	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
OK310810040250_00	Velma Creek!	2.42 MILES	5b	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
OK310810040260_00	Velma Creek West Branch!	1.25 MILES	5b	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
Sulfates	Agriculture	140			
OK310810040280_00	Passmore Cemetery Creek Trib B!	2.03 MILES	5c	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102, 140			
OK310810040290_00	Wildhorse Creek Trib 10-1S-5W!	4.15 MILES	5c	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	140			

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & **NEW** - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310810050060_00	Taylor Lake (Marlow City)	227.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK310810050120_00	Rush Creek, Trib E!	3.40 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810050130_00	Cox City!	3.21 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310810050140_00	West Cox City!	1.50 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310820010160_00	Ionine Creek	6.45 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Enterococcus*</i>	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 140		
<i>Total Dissolved Solids*</i>	Agriculture	49, 140		
OK310820010170_00	Jack Hollow Creek	4.87 MILES	5b	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK310820020080_00	Bills Creek, West	6.54 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK310820020110_00	McCarty Creek	8.49 MILES	5b	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Total Dissolved Solids*</i>	Agriculture	102		
Chloride	Agriculture	102		
<i>Sulfates*</i>	Agriculture	102		
OK310820020140_00	Allen's Lake	10.00 ACRES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK310830010010_00	Washita River	20.68 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
OK310830010030_00	Delaware Creek	11.68 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 102, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310830020020_00	Stinking Creek	18.36 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 97, 140		
OK310830020060_10	Rainy Mountain Creek	32.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 97, 140		
OK310830030010_00	Washita River	49.32 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
OK310830030070_00*	Cavalry Creek	20.30 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
<i>Enterococcus</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK310830030190_00	Beaver Creek	22.54 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 140		
Sulfates	Agriculture	49, 140		
OK310830030200_00*	Barnitz Creek	8.87 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Enterococcus</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
<i>Fishes Bioassessments</i> *	FWP - Warm Water Aquatic Community	140		
<i>Sulfates</i> *	Agriculture	140		
<i>Total Dissolved Solids</i> *	Agriculture	140		
OK310830030210_00	Barnitz Creek, East	26.48 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 140		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 140		
OK310830030230_00	Barnitz Creek, West	38.35 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
OK310830030280_00	Clinton Lake	335.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
<i>Color</i> *	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK310830040010_00	Spring Creek	16.76 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK310830040030_00	Stinking Creek	11.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
Enterococcus*	Primary Body Contact Recreation	140		
Total Dissolved Solids	Agriculture	49, 140		
OK310830050010_00	Sugar Creek	32.40 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK310830060130_00	Crowder Lake	158.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK310840010010_00	Washita River	18.62 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Lead	Fish Consumption	49, 85, 140		
OK310840010060_00	Quartermaster Creek	32.98 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
OK310840020020_00	Sandstone Creek	14.59 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	140		
OK310840020240_00*	Spring Creek	5.90 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK311100010020_00	Texoma Lake	15,743.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		


Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK311100010080_00	Texoma Lake, Red River Arm, Upper	11,466.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK311100010190_20	Red River	46.43 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
Selenium*	Public and Private Water Supply	46, 87, 108, 140		
Lead	Fish Consumption	49, 85, 140		
Selenium*	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK311100010230_00	Bills Creek	8.43 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	85, 140		
OK311100010250_00	Walnut Bayou	10.82 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 136, 140		
OK311100010290_00	Red Creek	17.42 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK311100010300_00	Fleetwood Creek	10.91 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK311100020010_10*	Hickory Creek	37.28 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		
OK311100020090_00	Lake Murray	5,458.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK311100030130_00	Healdton Municipal Lake	370.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK311100040010_00	Mud Creek	49.53 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	21, 46, 49, 87, 102, 108, 140		
Lead	Fish Consumption	49, 85, 140		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 87, 108, 140		


NEW

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK311100040045_00	Oak Creek!	3.04 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	97		
OK311100040080_00	Mud Creek, Lower West	27.81 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
OK311100040090_00	Post Oak Creek	7.53 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK311200000010_00	Red River	30.02 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
Sulfates	Agriculture	49, 140		
Selenium	Public and Private Water Supply	140		
Selenium	FWP - Warm Water Aquatic Community	140		
OK311200000030_00	Beaver Creek	30.69 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	140		
OK311200000080_00	Dry Creek	20.96 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Ammonia (Un-ionized)	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	97, 140		
Enterococcus	Primary Body Contact Recreation	92, 140		
Escherichia coli	Primary Body Contact Recreation	92, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 140		
OK311200000110_00	Claridy Creek	8.43 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	70		
Oil and Grease	FWP - Warm Water Aquatic Community	70		
OK311200000120_00	Willow Creek	7.32 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	70		
Oil and Grease	Aesthetic	70		
OK311210000020_00	Waurika Lake	10,100.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK311210000030_00	Walker Creek	10.02 MILES	5c	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK311210000150_00	Cottonwood Creek	7.21 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK311300010020_00	Cache Creek, East	9.05 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK311300010020_10	Cache Creek, East	17.11 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	140		
OK311300010080_00	Walters Lake (Boyer)	148.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK311300010100_00	Cache Creek, Unnamed Trib of East	8.57 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK311300020010_10	Cache Creek, East	17.08 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 62, 87, 92, 108, 111, 128, 133, 136, 140		
Sulfates	Agriculture	49, 97, 140		
OK311300030020_00	Ellsworth Lake	5,600.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK311300030070_00	Tahoe Creek	16.79 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	140		
Sulfates	Agriculture	140		
Oil and Grease	FWP - Warm Water Aquatic Community	140		
Oil and Grease	Public and Private Water Supply	140		
OK311300040050_00	Elmer Thomas Lake	334.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>	
OK311300040060_00*	Medicine Creek	17.71 MILES	5a	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Enterococcus*	Primary Body Contact Recreation	140			
OK311300040070_00	Lawtonka Lake	2,398.00 ACRES	5a	2014	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chlorophyll-a	Public and Private Water Supply	140			
OK311310010010_00	Red River	88.02 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Lead*	Fish Consumption	10, 140			
Total Dissolved Solids	Agriculture	49, 140			
Turbidity	FWP - Warm Water Aquatic Community	46, 87, 108, 140			
Chloride	Agriculture	49, 140			
Selenium	FWP - Warm Water Aquatic Community	140			
Sulfates	Agriculture	49, 140			
OK311310010025_00	Hound Creek	7.56 MILES	5c	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	102			
Sulfates*	Agriculture	102			
OK311310010070_00	Suttle Creek	19.41 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	49, 102, 140			
Sulfates	Agriculture	49, 102, 140			
Total Dissolved Solids	Agriculture	49, 102, 140			
OK311310020010_00	Cache Creek, West	9.10 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	49, 102, 140			
OK311310020010_10	Cache Creek, West	19.17 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	46, 49, 59, 85, 87, 102, 108, 111, 140			
Enterococcus*	Primary Body Contact Recreation	140			
pH	FWP - Warm Water Aquatic Community	8, 62, 92, 102, 140			
OK311310020060_00	Blue Beaver Creek	18.33 MILES	5a	2014	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Enterococcus	Primary Body Contact Recreation	92, 156, 140			
OK311310020068_00*	Rush Lake	53.00 ACRES	5c	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Mercury*	Fish Consumption	140			

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & **NEW** - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>	
OK311310020070_00*	Post Oak Creek	24.86 MILES	5a	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140			
OK311310020130_00*	Quanah Parker Lake	89.00 ACRES	5c	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Mercury*	Fish Consumption	140			
OK311310020150_00*	Panther Creek	7.48 MILES	5a	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140			
OK311310030010_00	Deep Red Creek	57.29 MILES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	49, 102, 140			
Sulfates	Agriculture	49, 102, 140			
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 108, 140			
Chloride	Agriculture	49, 102, 140			
OK311310030040_00	Little Deep Red Creek	33.57 MILES	5a	2014	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	46, 102, 140			
Enterococcus*	Primary Body Contact Recreation	140			
Escherichia coli*	Primary Body Contact Recreation	140			
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140			
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	140			
Sulfates	Agriculture	46, 102, 140			
Total Dissolved Solids	Agriculture	46, 102, 140			
OK311310030050_00	Brush Creek	11.64 MILES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Chloride	Agriculture	140			
Total Dissolved Solids	Agriculture	140			
Sulfates	Agriculture	140			
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	84, 92, 140			
Oil and Grease	Aesthetic	140			
Oil and Grease	FWP - Warm Water Aquatic Community	140			
OK311310030120_00	Frederick Lake	925.00 ACRES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Color	Aesthetic	140			
Turbidity	FWP - Warm Water Aquatic Community	140			

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Waterbody ID* & NEW - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK311500010020_10	Red River, North Fork	61.70 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	58, 140		
Total Dissolved Solids	Agriculture	58, 140		
Sulfates	Agriculture	58, 140		
Selenium	FWP - Warm Water Aquatic Community	140		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 85, 108, 136, 140		
OK311500010050_00	Stinking Creek	17.44 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Nitrates	Public and Private Water Supply	84, 92, 100, 140		
Sulfates	Agriculture	140		
OK311500010080_00	Otter Creek	23.13 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 102, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK311500010110_00	Tepee Creek	19.44 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK311500020040_00	Otter Creek, West	6.61 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	85, 92, 156, 140		
OK311500020060_00	Tom Steed Lake (Mountain Park)	6,400.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK311500030010_00	Elk Creek	15.70 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Lead	Fish Consumption	46, 85, 87, 108, 140		
Selenium	FWP - Warm Water Aquatic Community	140		
OK311500030040_00	Little Elk Creek	15.40 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Enterococcus</i> *	Primary Body Contact Recreation	140		
OK311500030060_00	Rocky (Hobart) Lake	347.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color *	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & **NEW** - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>	
OK311500030070_00*	Trail Creek	19.15 MILES	5a	2023	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Sulfates*	Agriculture	49, 102, 140			
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140			
OK311500030120_00	Elk City Lake	240.00 ACRES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
OK311510010020_00*	Altus Lake (Altus-Lugert)	6,260.00 ACRES	5a	2023	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity*	FWP - Warm Water Aquatic Community	140			
OK311510010090_00*	Timber Creek	12.01 MILES	5a	2020	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 85, 92, 108, 111, 133, 136, 140			
OK311510020010_00*	Red River, North Fork	37.86 MILES	5c	2017	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140			
OK311510020040_00*	Sand Creek	13.05 MILES	5c	2020	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140			
OK311510020090_00	Buffalo Creek	20.32 MILES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	49, 102, 140			
OK311510020120_00	Sweetwater Creek	16.43 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids*	Agriculture	49, 102, 140			
OK311600010020_00	Gypsum Creek	28.10 MILES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	49, 102, 140			
Sulfates	Agriculture	49, 102, 140			
Chloride	Agriculture	49, 102, 140			
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140			
OK311600010040_00	Sandy Creek (Lebos)	39.65 MILES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	49, 102, 140			
Chloride	Agriculture	49, 102, 140			
Fishes Bioassessments*	FWP - Habitat Limited Aquatic Community	140			
Selenium	FWP - Habitat Limited Aquatic Community	140			
Sulfates	Agriculture	49, 102, 140			

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK311600020010_00	Red River, Salt Fork	13.67 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	140		
Selenium	Public and Private Water Supply	140		
Chloride*	Agriculture	140		
Lead*	Fish Consumption	140		
Selenium	FWP - Warm Water Aquatic Community	140		
OK311600020010_10	Red River, Salt Fork	69.63 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Thallium	Fish Consumption	10, 140		
OK311600020060_00	Turkey Creek	51.64 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 102, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	49, 102, 140		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK311600020110_00	Bitter Creek	3.60 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
DDT	Fish Consumption	140		
Toxaphene	Fish Consumption	140		
OK311600020110_05	Bitter Creek	7.80 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 97, 140		
DDT	Fish Consumption	140		
Fishes Bioassessments	FWP - Habitat Limited Aquatic Community	140		
Toxaphene	Fish Consumption	140		
OK311600020110_10	Bitter Creek	18.57 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Toxaphene	Fish Consumption	140		
DDT	Fish Consumption	140		
OK311800000010_00	Red River, Elm Fork	36.63 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Lead*	Fish Consumption	140		
Selenium	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK31180000010_10	Red River, Elm Fork	25.69 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	58, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Selenium	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids	Agriculture	58, 140		
OK31180000040_00	Haystack Creek	43.06 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	46, 140		
OK31180000060_00*	Station Creek	10.58 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	49, 102, 140		
OK31180000070_00	Deer Creek	22.21 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK311800000130_00	Fish Creek	16.84 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK311800000170_00*	Elm Creek, West	12.77 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK410100010010_10	Red River	22.99 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead*	Fish Consumption	140		
Turbidity	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK410100010050_00	Norwood Creek	20.15 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 59, 87, 92, 108, 111, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	8, 92, 97, 102, 140		
OK410100010340_00	Waterhole Creek	16.61 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	4, 46, 59, 87, 92, 100, 108, 111, 133, 136, 140		
OK410200010200_00	Little River	8.20 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 82, 87, 92, 108, 140		
Turbidity	FWP - Cool Water Aquatic Community	108, 119, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410200010200_10	Little River	24.14 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Cool Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	140		
Turbidity	FWP - Cool Water Aquatic Community	46, 56, 87, 92, 108, 140		
OK410200010210_00	Mud Creek	17.66 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	140		
Zinc	FWP - Warm Water Aquatic Community	140		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	140		
OK410200030010_00	Rock Creek	12.35 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Cool Water Aquatic Community	155		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 100, 108, 111, 133, 136, 140		
OK410210010070_00	Cypress Creek	20.73 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH	FWP - Cool Water Aquatic Community	155		
OK410210020020_00	Pine Creek Lake	3,750.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
pH	FWP - Warm Water Aquatic Community	155		
OK410210020140_00	Little River	24.68 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Cool Water Aquatic Community	108, 119, 140		
Lead	Fish Consumption	49, 56, 82, 85, 140		
Lead	FWP - Cool Water Aquatic Community	49, 56, 82, 85, 140		
Copper	FWP - Cool Water Aquatic Community	49, 56, 85, 140		
Zinc*	FWP - Cool Water Aquatic Community	140		
OK410210020150_00	Terrapin Creek	13.47 MILES	5c	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Cool Water Aquatic Community	155		
OK410210020300_00	Cloudy Creek	25.63 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH*	FWP - Cool Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410210030020_00	Little River, Black Fork	31.00 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH	FWP - Cool Water Aquatic Community	155		
OK410210040010_10	Little River, Mountain Fork	1.14 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 56, 82, 140		
Lead	Fish and Wildlife Propagation-Trout Fishery (P	49, 56, 82, 140		
OK410210050020_00	Broken Bow Lake	14,200.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	155		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK410210060010_10	Little River, Mountain Fork	28.08 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Cool Water Aquatic Community	82, 146, 140		
Lead	FWP - Cool Water Aquatic Community	49, 82, 146, 140		
Silver*	FWP - Cool Water Aquatic Community	49, 56, 140		
Zinc*	FWP - Cool Water Aquatic Community	49, 56, 140		
OK410210060020_00	Buffalo Creek	23.38 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Cool Water Aquatic Community	155		
OK410210060160_00	Big Eagle Creek	20.50 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Cool Water Aquatic Community	155		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	4, 46, 59, 87, 92, 108, 111, 133, 136, 140		
OK410210060320_00	Beech Creek	12.71 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Cool Water Aquatic Community	155		
OK410210060350_00	Cow Creek	11.03 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH	FWP - Cool Water Aquatic Community	155		
OK410210070010_00	Lukfata Creek	17.80 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	4, 46, 87, 92, 100, 108, 111, 133, 136, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410210080010_00	Glover River	33.95 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead*	FWP - Cool Water Aquatic Community	49, 56, 140		
Turbidity	FWP - Cool Water Aquatic Community	108, 119, 140		
OK410210090010_00	Glover River, East Fork	21.60 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
pH*	FWP - Cool Water Aquatic Community	8, 59, 92, 102, 140		
OK410210090160_00*	Bluff Creek	3.69 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Cool Water Aquatic Community	140		
OK410300010010_00	Kiamichi River	18.11 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 56, 82, 140		
Lead	Fish Consumption	49, 56, 82, 140		
Lead	Public and Private Water Supply	49, 56, 82, 140		
OK410300010020_00	Gates Creek	4.85 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410300020020_00	Hugo Lake	13,250.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Mercury*	Fish Consumption	140		
pH*	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK410300020190_00	Rock Creek	13.96 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	33, 87, 92, 108, 111, 133, 136, 140		
pH*	FWP - Cool Water Aquatic Community	8, 92, 102, 140		
OK410300020220_00	Ozzie Cobb Lake	116.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
pH	FWP - Warm Water Aquatic Community	155		
OK410300030010_10	Kiamichi River	10.30 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Warm Water Aquatic Community	82, 140		
Lead	FWP - Warm Water Aquatic Community	49, 56, 82, 140		
Lead	Fish Consumption	49, 56, 82, 140		

Cause Name* - Indicates new cause listing for 2012

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410300030020_10	Cedar Creek	23.36 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Cool Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH*	FWP - Cool Water Aquatic Community	8, 92, 102, 140		
OK410300030060_00	One Creek	19.68 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410300030210_00	Dumpling Creek	13.73 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	155		
OK410300030270_00	Tenmile Creek	35.75 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
pH	FWP - Warm Water Aquatic Community	155		
OK410300030420_00*	Buck Creek	35.60 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
pH*	FWP - Warm Water Aquatic Community	8, 92, 102, 140		
OK410300030580_00	Pine Creek	23.49 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	155		
OK410310010010_00	Kiamichi River	26.35 MILES	5b	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper	FWP - Warm Water Aquatic Community	49, 56, 140		
Lead	FWP - Warm Water Aquatic Community	49, 56, 82, 140		
Lead	Fish Consumption	49, 56, 82, 140		
Silver*	FWP - Warm Water Aquatic Community	49, 56, 140		
OK410310010220_00	Carl Albert Lake	183.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	155		
OK410310010230_00	Talihina Lake	25.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	102, 119		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410310020010_10	Kiamichi River	25.18 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Copper*	FWP - Warm Water Aquatic Community	49, 56, 140		
Lead	FWP - Warm Water Aquatic Community	49, 82, 140		
pH	FWP - Warm Water Aquatic Community	155		
Silver	FWP - Warm Water Aquatic Community	49, 56, 140		
Zinc	FWP - Warm Water Aquatic Community	10, 140		
OK410310020070_00	Billy Creek	8.91 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	155		
OK410310020100_00	Big Cedar Creek	5.83 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	155		
OK410310030020_00	Sardis Lake	13,610.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK410310030090_00	Bolen Creek	8.54 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
Total Dissolved Solids	Agriculture	140		
pH	FWP - Warm Water Aquatic Community	155		
OK410400010010_20	Red River	4.86 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease*	FWP - Warm Water Aquatic Community	140		
Turbidity*	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK410400010040_00	Horse Creek	7.76 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 85, 87, 92, 108, 111, 133, 136, 140		
OK410400010070_00	Muddy Boggy Creek	21.59 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK410400010130_00	Lick Creek	20.19 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH*	FWP - Warm Water Aquatic Community	8, 92, 102, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 133, 136, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410400010210_00	Whitegrass Creek	29.71 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410400020200_00	Caney Creek	11.67 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 133, 136, 140		
pH	FWP - Warm Water Aquatic Community	8, 92, 140		
OK410400030010_00	Clear Boggy Creek	22.76 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
Lead	Fish Consumption	140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK410400030120_00	Rock Creek Lake	248.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK410400030240_00*	Delaware Creek	29.01 MILES	5a	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		
OK410400030370_00	Leader Creek	29.58 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410400030490_00	Goose Creek	15.09 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410400040170_00	Lake Creek	3.96 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK410400050270_10	Muddy Boggy Creek	22.25 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 85, 140		
Lead	Fish Consumption	49, 85, 140		
OK410400050410_00	Boggy Creek, North	7.25 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 136, 140		
Sulfates	Agriculture	140		
Total Dissolved Solids	Agriculture	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410400060010_30	Muddy Boggy Creek	20.56 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
pH	FWP - Warm Water Aquatic Community	102		
OK410400060040_00	Coalgate Municipal Lake	352.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		
OK410400060120_00	Caney Boggy Creek	26.49 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 100, 108, 111, 133, 136, 140		
OK410400070010_00*	McGee Creek	32.08 MILES	5c	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH*	FWP - Warm Water Aquatic Community	8, 59, 85, 92, 102, 140		
OK410400070020_00	McGee Creek Lake	3,810.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK410400080020_00	Atoka Lake	5,700.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		
Mercury*	Fish Consumption	140		
OK410600010030_00	Sulphur Creek	14.61 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
OK410600010140_00	Caddo Creek	13.96 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 92, 108, 111, 133, 136, 140		
OK410600010300_00*	Mineral Bayou	15.53 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity*	FWP - Warm Water Aquatic Community	46, 49, 87, 102, 108, 140		
OK410600020020_00	Sandy Creek	15.35 MILES	5a	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK410700000040_00	Island Bayou	41.20 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK520500010020_00	Eufaula Lake, N. Canadian River Arm	20,680.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520500010110_10	Canadian River, North	48.39 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK520500010170_00	Bad Creek	19.11 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK520500010200_00	Alabama Creek	14.20 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 102, 140		
Enterococcus	Primary Body Contact Recreation	46, 85, 92, 108, 111, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 85, 92, 108, 111, 133, 136, 140		
OK520500010242_00	Clearview Creek	2.29 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Total Dissolved Solids	Agriculture	140		
OK520500010270_00	Wetumka City Lake	169.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	140		
OK520500020010_00	Wewoka Creek	42.99 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	4, 46, 59, 85, 92, 100, 108, 111, 128, 133, 136, 140		
Chloride	Agriculture	49, 102, 140		
OK520500020020_00	Greasy Creek	18.51 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
pH	FWP - Warm Water Aquatic Community	140		
OK520500020027_00	Cheyarha Creek, East	3.01 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520500020090_00	Little Wewoka Creek	20.44 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 133, 136, 140		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 133, 136, 140		
OK520500020190_00	Wewoka Lake	371.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Chlorophyll-a</i> *	Public and Private Water Supply	140		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520500020220_00	Sportsman Lake	354.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520500020230_00	Carter Creek	2.70 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102, 140		
Total Dissolved Solids	Agriculture	102, 140		
OK520500020240_00	Wewoka Creek	5.36 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Cadmium	FWP - Habitat Limited Aquatic Community	140		
OK520500020240_10	Wewoka Creek	10.27 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102, 124, 140		
Nitrates	Public and Private Water Supply	85, 92		
Sulfates	Agriculture	85, 92		
Total Dissolved Solids	Agriculture	102, 124, 140		
OK520500020250_00	Magnolia Creek	4.81 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520500020260_00	Salt Cedar Creek	1.33 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520500020260_20	Salt Cedar Creek	1.06 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520500020270_00	Wewoka Creek, Trib A!	5.26 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	102		
OK520500020280_00	Oakwood Cemetery Creek!	6.69 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520510000010_00	Canadian River, North	36.94 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
pH*	FWP - Warm Water Aquatic Community	140		
OK520510000095_00	Turkey Creek, Trib A!	4.26 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520510000100_00	Turkey Creek	16.42 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids*	Agriculture	102		
pH	FWP - Warm Water Aquatic Community	102, 140		
OK520510000105_00	Earlsboro Creek	5.13 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520510000110_00	Canadian River, North	3.04 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	140		
pH	FWP - Warm Water Aquatic Community	140		
OK520510000110_05	Canadian River, North	21.91 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	140		
Cadmium	FWP - Warm Water Aquatic Community	140		
Lead	FWP - Warm Water Aquatic Community	140		
Lead	Fish Consumption	140		
OK520510000110_10	Canadian River, North	20.31 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Total Dissolved Solids	Agriculture	140		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 108, 111, 133, 136, 140		
Lead	Fish Consumption	49, 85, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520510000110_20	Canadian River, North	31.54 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	34, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520510000220_00	Tecumseh Lake	127.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520510000290_00	Deer Creek, South	4.40 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	34, 49, 97, 111, 140		
Oil and Grease	Public and Private Water Supply	34, 49, 97, 111, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	34, 46, 92, 111, 133, 136, 140		
Oil and Grease	Aesthetic	34, 49, 97, 111, 140		
OK520510000300_00	Shawnee Twin Lake #2 (North)	1,100.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520520000010_00	Canadian River, North	3.85 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Dieldrin	FWP - Warm Water Aquatic Community	66, 87, 140		
Dieldrin	Fish Consumption	66, 87, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
OK520520000010_10	Canadian River, North	13.35 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	34, 92, 111, 133, 136, 140		
OK520520000010_30	Canadian River, North	4.55 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520520000010_40	Canadian River, North	9.78 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	34, 92, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520520000030_00	Choctaw Creek	9.76 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Habitat Limited Aquatic Community	140		
OK520520000060_00	Crutcho Creek	3.55 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK52052000070_00	Crutcho Creek	3.85 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	68, 84, 85, 140		
Escherichia coli	Primary Body Contact Recreation	68, 84, 85, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	68, 84, 85, 140		
OK52052000090_00	Crutcho Creek	3.14 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	33, 140		
Oil and Grease	FWP - Habitat Limited Aquatic Community	33, 140		
OK52052000110_00	Cherry Creek	7.31 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Habitat Limited Aquatic Community	140		
Selenium	FWP - Habitat Limited Aquatic Community	140		
Cadmium	FWP - Habitat Limited Aquatic Community	140		
OK52052000150_00	Crooked Oak Creek	6.98 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Enterococcus	Primary Body Contact Recreation	84, 85, 140		
Oil and Grease	Aesthetic	84, 140		
Oil and Grease	FWP - Warm Water Aquatic Community	84, 140		
Oil and Grease	Public and Private Water Supply	84, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	84, 85, 140		
Total Dissolved Solids	Agriculture	140		
OK52052000210_00	Canadian River, North	1.07 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	92, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Oil and Grease	Aesthetic	70		
Oil and Grease	FWP - Warm Water Aquatic Community	70		
OK52052000230_00	Campbell Creek	5.89 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 108, 136, 156, 140		
Sulfates	Agriculture	140		
OK52052000240_00	Mustang Creek	9.16 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 111, 133, 136, 156, 140		
OK52052000250_00	Canadian River, North	6.52 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Dieldrin	Fish Consumption	66, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		

Cause Name* - Indicates new cause listing for 2012

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520520000260_00	Overholser Lake	1,500.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	140		
Color*	Aesthetic	140		
OK520520000350_00	Airport Heights Creek!	4.26 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	34, 84, 111, 133, 140		
OK520530000010_00*	Canadian River, North	10.24 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	4, 46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	4, 46, 92, 108, 111, 133, 136, 140		
OK520530000030_00	Shell Creek	9.48 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 156, 140		
OK520530000080_00	El Reno Lake	170.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520530000190_00*	Minnehaha Creek	7.90 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK520530000270_00	Perimeter Creek!	3.73 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	34, 49, 111, 140		
Oil and Grease	Aesthetic	34, 49, 111, 140		
OK520600010010_00	Canadian River	37.50 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Lead	Fish Consumption	49, 85, 140		
Total Dissolved Solids*	Agriculture	140		
OK520600020010_00	Canadian River	24.35 MILES	5b	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
OK520600020170_00	Julian Creek	5.19 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	92, 156, 140		

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Waterbody ID* & NEW - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520600020205_00	Red Springs Creek	1.04 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	140		
OK520600030010_00	Canadian Sandy Creek	37.70 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
OK520600030020_00*	Little Sandy Creek	8.56 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140		
OK520610010010_05	Canadian River	32.65 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520610010080_00	Willow Creek	9.06 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorpyrifos	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	156, 140		
OK520610010180_00	Bishop Creek	7.82 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorpyrifos	FWP - Warm Water Aquatic Community	140		
OK520610010230_00	Cow Creek	6.71 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Selenium	FWP - Warm Water Aquatic Community	140		
OK520610020060_00	Foreman Creek	4.77 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 92, 108, 133, 136, 140		
OK520610020070_00	Dry Creek	8.37 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	FWP - Warm Water Aquatic Community	34, 49, 97, 111, 140		
Oil and Grease	Public and Private Water Supply	34, 49, 97, 111, 140		
Oil and Grease	Aesthetic	34, 49, 97, 111, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	34, 92, 133, 136, 140		
OK520610020150_10	Canadian River	36.25 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead*	Fish Consumption	49, 85, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520610020165_00	Trib8!	5.97 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Arsenic	FWP - Warm Water Aquatic Community	70		
Chromium (total)	FWP - Warm Water Aquatic Community	70		
OK520610030010_00	Walnut Creek	28.44 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 85, 92, 100, 108, 111, 128, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 85, 92, 100, 108, 111, 128, 133, 136, 140		
OK520610030080_00	Walnut Creek, North Fork	16.84 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	156, 140		
OK520620010060_00*	Lariat Creek	10.71 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK520620020010_00	Canadian River	37.78 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 102, 140		
OK520620020060_00	Flanders Creek	4.54 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	155		
OK520620020070_00	Fiddlers Creek	6.89 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	102		
OK520620020080_00	Squirrel Creek	9.80 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	102		
OK520620020090_00	Trail Creek	14.34 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK520620030010_00	Canadian River	38.09 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Enterococcus	Primary Body Contact Recreation	156, 140		
Sulfates	Agriculture	140		
OK520620030020_00	Lone Creek	13.18 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520620030050_00	Red Trail Creek	7.74 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK520620030110_00	Red Creek	11.82 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
OK520620040050_00	Hackberry Creek	14.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
OK520700010020_00	Eufaula Lake, Canadian River Deep Fork	16,453.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700010080_00	Gentry Creek	9.64 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 136, 140		
OK520700010110_00	Grave Creek	13.94 MILES	5c	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520700010140_00	Coal Creek	21.72 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
OK520700010170_00	Wolf Creek	5.70 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
OK520700010180_00	Henryetta Lake	450.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Lead	FWP - Warm Water Aquatic Community	140		
Lead	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700010220_00*	Montezuma Creek	22.39 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK520700020010_10	Canadian River, Deep Fork	39.26 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520700020040_00	Okmulgee Lake	668.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520700020060_00	Dripping Springs Lake (Salt Creek Structure 1)	1,150.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		
OK520700020080_00	Adams Creek	13.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520700020150_00	Salt Creek	12.59 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520700020155_00	Begger Creek!	3.61 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520700020200_00	Nuyaka Creek	21.72 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700020290_00	Okemah Lake	761.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
OK520700030020_00	Walnut Creek	14.71 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700030240_00	Stroud Lake	600.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520700030270_00	Hilliby Creek	13.39 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
OK520700040010_00	Canadian River, Deep Fork	18.10 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520700040370_00	Meeker Lake	250.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color*	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700050010_00*	Canadian River, Deep Fork	25.60 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK520700050025_00	Bellcow Lake	1,153.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520700050060_00	Chandler Lake	129.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Chlorophyll-a	Public and Private Water Supply	140		
OK520700050080_00	Bellcow Creek, North	4.56 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	124		
Oil and Grease	FWP - Warm Water Aquatic Community	124		
OK520700050140_00	Captain Creek	4.40 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	140		
OK520700050250_00	Chandler Lake, NW Trib!	2.36 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	124		
Oil and Grease	FWP - Warm Water Aquatic Community	124		
Oil and Grease	Public and Private Water Supply	124		
OK520700050270_00*	West Captain Creek, Unnamed Trib of	6.26 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK520700060050_00	Browns Creek	13.93 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK520700060130_10	Little Deep Fork Creek	24.39 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	140		
Escherichia coli	Primary Body Contact Recreation	140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520700060140_00	Cattfish Creek	9.94 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
Total Dissolved Solids	Agriculture	140		
OK520700060210_00	Spring Creek, West	7.28 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520710010010_00	Canadian River, Deep Fork	7.70 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 108, 111, 128, 133, 136, 140		
<i>Escherichia coli</i> *	Primary Body Contact Recreation	46, 59, 85, 92, 108, 111, 128, 133, 136, 140		
<i>Benthic-Macrobenthic Bioassess:</i>	FWP - Warm Water Aquatic Community	140		
OK520710010030_00	Coon Creek	12.47 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorpyrifos	FWP - Warm Water Aquatic Community	140		
OK520710020020_00	Arcadia Lake	1,820.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520710020030_00	Spring Creek	5.27 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
<i>Benthic-Macrobenthic Bioassess:</i>	FWP - Warm Water Aquatic Community	140		
Escherichia coli	Primary Body Contact Recreation	84, 140		
OK520710020060_00	Canadian River, Deep Fork	10.07 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	84, 140		
Escherichia coli	Primary Body Contact Recreation	84, 140		
OK520800010010_00	Little River	24.80 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK520800010040_00	Holdenville Lake	550.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		

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Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520800010050_00	Bird Creek	13.81 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Ammonia (Un-ionized)	FWP - Habitat Limited Aquatic Community	46, 85, 92, 100, 128, 140		
Chloride*	Agriculture	49, 102, 140		
Total Dissolved Solids*	Agriculture	49, 102, 140		
OK520800010055_00	Kight Creek	4.55 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520800010060_00	Cudjo Creek	5.88 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids*	Agriculture	102		
Chloride	Agriculture	102		
OK520800010062_00	Bear Cub Creek	1.05 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
pH	FWP - Warm Water Aquatic Community	102		
OK520800010090_00	Little River	28.45 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK520800010130_00*	Little River	17.11 MILES	5c	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride*	Agriculture	49, 102, 140		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids*	Agriculture	49, 102, 140		
OK520800020080_00	Pecan Creek	10.80 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oil and Grease	Aesthetic	34, 49, 97, 110, 111, 140		
Oil and Grease	FWP - Warm Water Aquatic Community	34, 49, 97, 110, 111, 140		
OK520800030010_00	Salt Creek	39.02 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Escherichia coli	Primary Body Contact Recreation	4, 46, 85, 87, 100, 108, 111, 133, 136, 140		
Enterococcus	Primary Body Contact Recreation	4, 46, 85, 87, 100, 108, 111, 133, 136, 140		
Chloride	Agriculture	49, 102, 140		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK520800030070_00	Bruno Creek	10.32 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & NEW - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK520800030080_00	Popshego Creek	4.38 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Barium	Public and Private Water Supply	102		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520800030120_00	Blacksmith Creek	5.99 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Total Dissolved Solids	Agriculture	102		
OK520810000020_00	Thunderbird Lake	6,070.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
Chlorophyll-a	Public and Private Water Supply	140		
OK520810000030_00	Hog Creek	11.89 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 111, 133, 136, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 49, 87, 156, 140		
OK520810000040_00	Hog Creek, West Branch	3.69 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	34, 111, 133, 136, 140		
OK520810000080_00*	Little River	14.96 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK520810000090_00*	Rock Creek	5.99 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK520810000100_00	Elm Creek	1.44 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	140		
Total Dissolved Solids	Agriculture	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK520810000110_00	Elm Creek, East	2.40 MILES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	34, 108, 111, 133, 136, 140		

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Waterbody ID* & NEW - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>	
OK520810000130_00	Stanley Draper Lake	2,900.00 ACRES	5a	2014	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
Mercury*	Fish Consumption	140			
OK520810000140_00*	Elm Creek, West	8.00 MILES	5a	2014	NEW
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140			
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140			
OK520810000175_00	Moore Creek	4.02 MILES	5c	2014	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Total Dissolved Solids	Agriculture	102			
OK620900010020_00	Keystone Lake, Cimarron River Arm, Lower	4,673.00 ACRES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
OK620900010090_00	Keystone Lake, Cimarron River Arm, Upper	5,550.00 ACRES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
OK620900010170_10	Cimarron River	26.58 MILES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Lead	FWP - Warm Water Aquatic Community	49, 85, 140			
Lead	Fish Consumption	49, 85, 140			
OK620900010310_00	Cottonwood Creek	6.26 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140			
OK620900020120_00	Cushing Lake	591.00 ACRES	5a	2020	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Turbidity	FWP - Warm Water Aquatic Community	140			
Color	Aesthetic	140			
OK620900030010_00	Cimarron River	42.09 MILES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Lead*	Fish Consumption	49, 85, 140			
OK620900030260_00	Beaver Creek, West	13.21 MILES	5a	2023	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Enterococcus	Primary Body Contact Recreation	92, 156, 140			
Escherichia coli	Primary Body Contact Recreation	92, 156, 140			
OK620900040040_00	Stillwater Creek	3.53 MILES	5a	2017	
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>			
Oxygen, Dissolved*	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140			

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* & **NEW** - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK620900040050_00	Little Stillwater Creek	13.91 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Nitrates	Public and Private Water Supply	85, 92		
OK620900040070_10	Stillwater Creek	16.43 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Habitat Limited Aquatic Community	46, 87, 92, 100, 108, 111, 133, 136, 140		
OK620900040190_00	Boomer Lake	260.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Color	Aesthetic	140		
Mercury*	Fish Consumption	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK620900040240_00	McMurtry Lake	1,155.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK620900040270_10	Stillwater Creek	6.42 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK620900040280_00	Carl Blackwell Lake	3,370.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK620910010010_00	Cimarron River	8.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli*	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
OK620910020010_00	Cimarron River	17.84 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Selenium	FWP - Warm Water Aquatic Community	140		
OK620910020010_10	Cimarron River	41.63 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Selenium*	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
Chloride	Agriculture	49, 140		
OK620910020040_00	Cooper Creek	40.27 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	49, 102, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012


<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK620910020250_00	Deep Creek	25.42 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 140		
OK620910020270_00	Elm Creek	14.15 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK620910030010_00	Skeleton Creek	32.84 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Selenium	FWP - Warm Water Aquatic Community	140		
OK620910040010_00	Cottonwood Creek	22.01 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 128, 133, 136, 140		
Escherichia coli	Primary Body Contact Recreation	4, 46, 92, 100, 108, 111, 128, 133, 136, 140		
OK620910040060_00	Guthrie Lake	274.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Enterococcus	Primary Body Contact Recreation	140		
OK620910040080_00	Liberty Lake	167.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	140		
OK620910040100_00	Chisholm Creek	21.15 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Nitrates	Public and Private Water Supply	140		
Enterococcus	Primary Body Contact Recreation	140		
OK620910040120_00	Deer Creek	12.67 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorpyrifos	FWP - Warm Water Aquatic Community	140		
OK620910040140_00	Bluff Creek	9.32 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	84, 85, 140		
OK620910040200_00	Hefner Lake	2,500.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK620910050010_00	Kingfisher Creek	47.37 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 102, 140		
OK620910050080_00	Winter Camp Creek	24.23 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK620910050150_00	Winter Camp Creek!	7.73 MILES	5b	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK620910060010_00	Turkey Creek	82.59 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli*	Primary Body Contact Recreation	46, 85, 92, 108, 111, 128, 133, 136, 140		
OK620910060030_00	Buffalo Creek	13.99 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK620910060110_00	Clear Creek	5.18 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK620920010080_00	Cottonwood Creek	21.88 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	92, 156, 140		
Escherichia coli	Primary Body Contact Recreation	92, 156, 140		
pH	FWP - Warm Water Aquatic Community	140		
OK620920010130_00	Griever Creek	20.28 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassessments	FWP - Warm Water Aquatic Community	140		
Escherichia coli	Primary Body Contact Recreation	92, 156, 140		
OK620920010140_00	Griever Creek, East	13.36 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 136, 140		
Sulfates	Agriculture	49, 102, 140		
OK620920010180_00	Main Creek	19.10 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	49, 140		
OK620920020010_00	Cimarron River	32.63 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Selenium*	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids	Agriculture	49, 140		
Chloride	Agriculture	49, 140		
OK620920020170_00	Traders Creek	22.09 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	156, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK620920030010_00	Cimarron River	24.35 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	49, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 87, 108, 140		
OK620920040110_00	Little Eagle Chief Creek	24.99 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK620920050050_00	Sand Creek	26.02 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 87, 92, 108, 111, 133, 136, 140		
Sulfates*	Agriculture	49, 102, 140		
OK620930000010_00	Cimarron River	37.66 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Selenium	FWP - Warm Water Aquatic Community	140		
Thallium	Fish Consumption	10, 140		
OK620930000100_00	Crooked Creek	6.38 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	140		
OK621000010010_30	Arkansas River, Salt Fork	34.45 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK621000020040_00	Wild Horse Creek	24.66 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 97, 102, 140		
OK621000020130_00	Spring Creek	6.14 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	140		
Enterococcus	Primary Body Contact Recreation	140		
OK621000030050_00	Cattle Creek, West	8.56 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK621000040010_00	Deer Creek	40.81 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassess:	FWP - Warm Water Aquatic Community	140		
OK621000060010_00	Crooked Creek	32.88 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 136, 140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK621000060060_00	Duel Creek	10.35 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK621010010010_00	Arkansas River, Salt Fork	17.34 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	49, 102, 140		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK621010010020_00	Great Salt Plains Lake	8,690.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Enterococcus	Primary Body Contact Recreation	140		
OK621010010130_00*	Clay Creek, West	22.92 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids*	Agriculture	49, 102, 140		
Sulfates*	Agriculture	49, 102, 140		
Chloride*	Agriculture	49, 102, 140		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK621010010160_00	Arkansas River, Salt Fork	14.96 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
OK621010010230_00	Turkey Creek	20.80 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	49, 102, 140		
Total Dissolved Solids	Agriculture	49, 102, 140		
OK621010010240_00	Boggy Creek	16.43 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK621010010270_00	Yellowstone Creek	21.82 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	49, 102, 140		
Total Dissolved Solids	Agriculture	49, 97, 140		
OK621010030080_00	Capron Creek, North	8.09 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates	Agriculture	140		
OK621100000010_10	Chikaskia River	23.11 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK621100000010_20	Chikaskia River	12.81 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 128, 136, 140		
OK621100000030_00	Duck Creek	25.78 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	140		
Escherichia coli	Primary Body Contact Recreation	140		
OK621100000040_00	Peckham Creek	9.29 MILES	5b	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	102		
OK621100000070_00	Grainville Creek	6.32 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Sulfates*	Agriculture	102		
OK621100000100_00	Bitter Creek	23.33 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride*	Agriculture	49, 102, 140		
Total Dissolved Solids	Agriculture	49, 102, 140		
Sulfates*	Agriculture	49, 102, 140		
OK621100000130_00	Scatter Creek	7.58 MILES	5c	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
Sulfates*	Agriculture	102		
OK621200010020_00	Keystone Lake	3,980.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK621200010050_00	Keystone Lake, Arkansas River Arm	9,491.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK621200010200_00	Arkansas River	37.49 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	FWP - Warm Water Aquatic Community	49, 85, 140		
Lead	Fish Consumption	49, 85, 140		
OK621200010270_00	Cleveland Lake	159.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		

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<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK621200020210_00	Lake Ponca	402.50 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
Chlorophyll-a	Public and Private Water Supply	140		
OK621200030010_00	Black Bear Creek	68.02 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead	Fish Consumption	49, 85, 140		
OK621200030040_00	Camp Creek	23.09 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
OK621200030060_00	Lone Chimney Lake	550.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity*	FWP - Warm Water Aquatic Community	140		
OK621200030100_00	Pawnee Lake	257.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK621200030260_10	Black Bear Creek	11.65 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK621200030270_00	Cow Creek	12.97 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	85, 140		
Escherichia coli	Primary Body Contact Recreation	85, 140		
OK621200030350_00	Perry Lake	614.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Color	Aesthetic	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK621200030396_00	Lucien Creek	3.62 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK621200030420_00	Garber Creek	5.62 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK621200030490_00	Garber Field!	3.42 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		

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OK621200030500_00	St. John!	2.58 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK621200030510_00	Shale!	2.54 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	102		
OK621200030560_00	Lutheran!	2.76 MILES	5c	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chloride	Agriculture	140		
OK621200050010_10	Red Rock Creek	46.89 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 85, 92, 108, 111, 133, 136, 140		
Sulfates	Agriculture	49, 140		
OK621210000020_00	Kaw Lake, Lower	7,208.00 ACRES	5a	2014
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Mercury*	Fish Consumption	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK621210000030_10	Arkansas River	14.44 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 85, 108, 111, 136, 140		
Sulfates	Agriculture	49, 140		
Total Dissolved Solids	Agriculture	49, 140		
Turbidity	FWP - Warm Water Aquatic Community	46, 85, 87, 108, 140		
OK621210000040_00	Kaw Lake, Upper	9,009.00 ACRES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
Mercury*	Fish Consumption	140		
OK720500010010_00	Canadian River, North	37.36 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead*	Fish Consumption	140		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
OK720500010020_00	Canton Lake	7,910.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK720500010070_00	Bent Creek	18.13 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 92, 108, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 136, 140		
Sulfates	Agriculture	49, 140		

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OK720500010140_10	Beaver River (North Canadian)	11.50 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 59, 85, 92, 111, 133, 136, 140		
OK720500010150_00	Persimmon Creek	13.45 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus	Primary Body Contact Recreation	46, 108, 128, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 108, 128, 136, 140		
OK720500010200_00	Indian Creek	17.03 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
Escherichia coli*	Primary Body Contact Recreation	46, 59, 92, 108, 111, 133, 136, 140		
OK720500020010_00	Beaver River (North Canadian)	40.07 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Lead*	Fish Consumption	140		
Escherichia coli*	Primary Body Contact Recreation	46, 59, 108, 128, 136, 140		
OK720500020030_00	Wolf Creek	5.57 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Enterococcus*	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK720500020050_00	Otter Creek	13.55 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassessments:	FWP - Warm Water Aquatic Community	140		
OK720500020070_00	Clear Creek	29.74 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassessments:	FWP - Warm Water Aquatic Community	140		
OK720500020100_00	Spring Creek	6.67 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Fishes Bioassessments*	FWP - Warm Water Aquatic Community	140		
OK720500020130_00	Kiowa Creek	34.54 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	4, 46, 92, 108, 111, 133, 136, 140		
OK720500020140_00	Beaver River (North Canadian)	38.96 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Benthic-Macrobenthic Bioassessments:	FWP - Warm Water Aquatic Community	140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	140		
Lead	Fish Consumption	49, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	58, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

<u>Waterbody ID</u>	<u>Waterbody Name</u>	<u>Waterbody Size</u>	<u>Category</u>	<u>TMDL Date</u>
OK720500020290_00	Beaver River (North Canadian)	31.37 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	140		
Benthic-Macroinvertebrate Bioasse:	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	140		
Lead	Fish Consumption	49, 140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	140		
Sulfates	Agriculture	140		
OK720500020450_00	Beaver River (North Canadian)	28.20 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Total Dissolved Solids	Agriculture	58, 140		
Sulfates*	Agriculture	58, 140		
Sedimentation/Siltation	FWP - Warm Water Aquatic Community	140		
Chloride	Agriculture	58, 140		
Fishes Bioassessments	FWP - Warm Water Aquatic Community	140		
OK720500020500_00	Palo Duro Creek	15.84 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Selenium	FWP - Warm Water Aquatic Community	140		
Total Dissolved Solids	Agriculture	140		
Sulfates	Agriculture	140		
Escherichia coli	Primary Body Contact Recreation	140		
Enterococcus	Primary Body Contact Recreation	140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	92, 100, 156, 140		
OK720500020500_10	Palo Duro Creek	4.40 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 136, 140		
Escherichia coli	Primary Body Contact Recreation	46, 92, 108, 111, 133, 136, 140		
OK720500030020_00	Fort Supply Lake	1,880.00 ACRES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Chlorophyll-a	Public and Private Water Supply	140		
Turbidity	FWP - Warm Water Aquatic Community	140		
OK720500030080_00	Buzzard Creek	10.10 MILES	5a	2023
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	92, 156, 140		
OK720510000190_00	Beaver River (North Canadian)	42.54 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 59, 108, 140		

Cause Name* - Indicates new cause listing for 2012

Waterbody ID* &  - Indicate new waterbody listing for 2012

OK720510000275_00	Corrupa Creek	12.94 MILES	5a	2020
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Ammonia (Un-ionized)	FWP - Warm Water Aquatic Community	156, 140		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	156, 140		
Enterococcus	Primary Body Contact Recreation	156, 140		
Escherichia coli	Primary Body Contact Recreation	156, 140		
OK72090000010_00	Cimarron River	46.82 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Escherichia coli	Primary Body Contact Recreation	156, 140		
OK720900000100_00	Cold Springs Creek	29.19 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 136, 140		
OK720900000180_00	Cimarron River	19.24 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	46, 87, 92, 108, 136, 140		
Sulfates	Agriculture	49, 102, 140		
OK720900000200_00	Carrizo Creek, South	19.55 MILES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Oxygen, Dissolved	FWP - Warm Water Aquatic Community	140		
OK720900000240_00	Carl Etling Lake	159.00 ACRES	5a	2017
<u>Cause of Impairment</u>	<u>Impaired Use</u>	<u>Unconfirmed Potential Sources</u>		
Turbidity	FWP - Warm Water Aquatic Community	140		
pH	FWP - Warm Water Aquatic Community	140		
Sulfates*	Agriculture	140		

Legend of Potential Sources

Source ID	Source Description
2	Acid Mine Drainage
4	Animal Feeding Operations (NPS)
8	Atmospheric Deposition - Acidity
10	Atmospheric Deposition - Toxics
16	Cercla NPL (Superfund) Sites
21	Clean Sediments
33	Discharges from Biosolids (SLUDGE) Storage, Application or Disposal
34	Discharges from Municipal Separate Storm Sewer Systems (MS4)
38	Dredging (E.g., for Navigation Channels)
42	Flow Alterations from Water Diversions
46	Grazing in Riparian or Shoreline Zones
49	Highway/Road/Bridge Runoff (Non-construction Related)
56	Impacts from Abandoned Mine Lands (Inactive)
58	Impacts from Hydrostructure Flow Regulation/Modification
59	Impacts from Land Application of Wastes
62	Industrial Point Source Discharge
66	Irrigated Crop Production
68	Land Application of Wastewater Biosolids (Non-agricultural)
69	Landfills
70	Leaking Underground Storage Tanks
82	Mine Tailings
84	Municipal (Urbanized High Density Area)
85	Municipal Point Source Discharges
87	Non-irrigated Crop Production
92	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
97	Other Spill Related Impacts
100	Permitted Runoff from Confined Animal Feeding Operations (CAFOs)
102	Petroleum/natural Gas Activities (Legacy)
108	Rangeland Grazing
110	Releases from Waste Sites or Dumps
111	Residential Districts
119	Silviculture Harvesting
124	Spills from Trucks or Trains
127	Surface Mining
128	Total Retention Domestic Sewage Lagoons
133	Wastes from Pets
136	Wildlife Other than Waterfowl
140	Source Unknown
146	Sources Outside State Jurisdiction or Borders
155	Natural Sources
156	Agriculture

Prioritization of TMDL Development

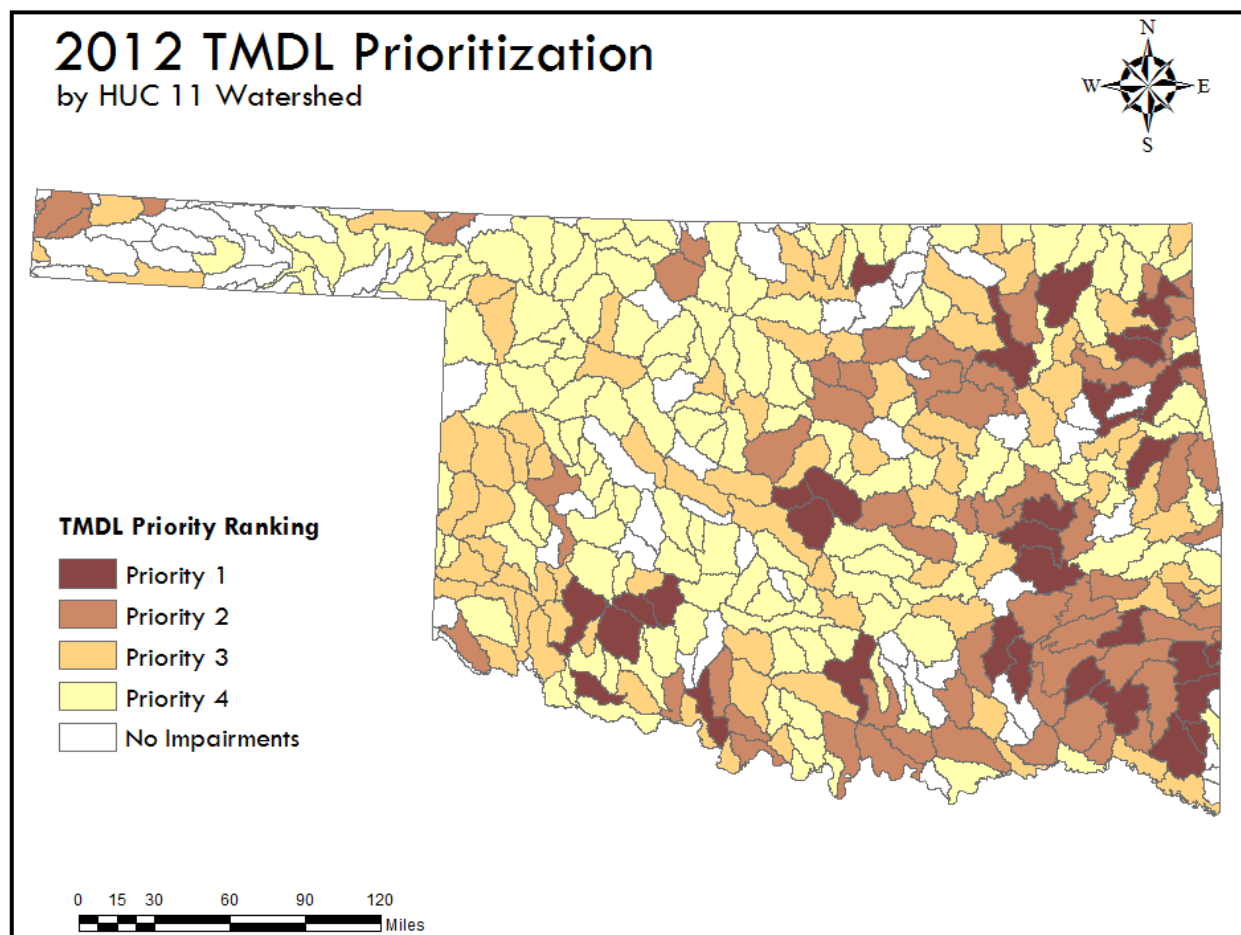
A priority ranking for TMDL development has been established for each impaired HUC 11 watershed in the state using the procedure outlined in the 2012 Continuing Planning Process (pp. 139-140). The TMDL prioritization point totals calculated for each watershed were broken down into the following four priority levels:

- Priority 1 watersheds - above the 90th percentile (32 watersheds)
- Priority 2 watersheds - 70th to 90th percentile (64 watersheds)
- Priority 3 watersheds - 40th to 70th percentile (81 watersheds)
- Priority 4 watersheds - below the 40th percentile (141 watersheds)

Each waterbody on the 2012 303(d) list has been assigned a potential date of TMDL development based on the priority level for the corresponding HUC 11 watershed.

Priority 1 watersheds are targeted for TMDL development within the next two years.

81 HUC11 watersheds contained no impaired waterbodies and were not included in the prioritization process.



Appendix D - 2012 Oklahoma 303(d) Delisting Justifications

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK120400010130_00	Greenleaf Lake	Chlorophyll-a	Meets criteria; Long term chlorophyll-a average is 9.91 ug/L	
OK120400010130_00	Greenleaf Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK120400010260_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK120400010260_00	Arkansas River	Enterococcus	Change in WQS; Geometric mean of 27.8 is below criterion	
OK120400010260_00	Arkansas River	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK120400010400_00	Coody Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42532	42532
OK120400010400_00	Coody Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42532	42532
OK120400020010_00	Dirty Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42533	42533
OK120400020030_00	Dirty Creek, South Fork	Enterococcus	TMDL completed; EPA TMDL ID# 42535	42535
OK120400020110_00	Dirty Creek, Georges Fork	Enterococcus	TMDL completed; EPA TMDL ID# 42536	42536
OK120400020160_00	Butler Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42538	42538
OK120400020160_00	Butler Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 43538	42538
OK120400020190_00	Elk Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK120400020190_00	Elk Creek	Enterococcus	Change in WQS; Geometric mean of 29 is below criterion	
OK120400020240_00	Shady Grove Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42539	42539

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK120410010080_00	Arkansas River	Oil and Grease	Listed in error; data inadequate to assess Oil & Grease	
OK120410010080_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK120410010080_10	Arkansas River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK120410010100_00	Cloud Creek	Escherichia coli	WQS attained; geometric mean of 86 is below criterion	
OK120410010100_00	Cloud Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42540	42540
OK120410010100_00	Cloud Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (19% violate support criteria, 0% violate non-support criteria)	
OK120410010190_00	Bixhoma Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK120410010220_00	Snake Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42541	42541
OK120410010220_00	Snake Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (14% violate support criteria, 5% violate non-support criteria)	
OK120410030065_00	Middle Duck Creek, Unnamed Trib of	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK120410030065_00	Middle Duck Creek, Unnamed Trib of	Chloride	Error in original listing; not enough information available to make an assessment, only 1 of 1 chloride sample exceeds criterion	
OK120420010010_00	Arkansas River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK120420010010_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK120420010010_10	Arkansas River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK120420010130_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK120420020010_00	Polecat Creek	Enterococcus	Change in WQS; Geometric mean of 29 is below criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK120420020050_00	Polecat Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42568	42568
OK120420020160_00	Childres Creek	Total Dissolved Solids	Error in original listing; not enough samples collected to make assessment determination, only 1 of 4 samples exceeded criterion	
OK120420020300_00	Heyburn Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK121300010010_00	Bird Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121300010010_00	Bird Creek	Lead	WQS attained; Lead mean = 1.06	
OK121300010010_00	Bird Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40585	40585
OK121300010010_00	Bird Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40585	40585
OK121300010060_00	Ranch Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40972	40972
OK121300010090_00	Coal Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40582	40582
OK121300020010_10	Bird Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39211	39211
OK121300020190_00	Waxhoma Lake	Oxygen, Dissolved	Due to WQS revision; DO is undetermined (56-68% of water column is less than 2 mg/L)	
OK121300030200_00	Clear Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121300030230_00	Pawhuska Lake	Oxygen, Dissolved	Due to WQS revision; DO is undetermined (54% of water column is less than 2 mg/L)	
OK121300030300_00	Bluestem Lake	Enterococcus	Change in WQS; Geometric mean not exceeded	
OK121300030300_00	Bluestem Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK121300030320_00	Bird Creek, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121300040010_00	Hominy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39215	39215
OK121300040080_00	Skiatook Lake	Oxygen, Dissolved	Due to WQS revision; DO is undetermined (53-70% of water column is less than 2 mg/L)	
OK121300040280_00	Hominy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121300040280_00	Hominy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39160	39160
OK121300040330_00	Hominy Municipal Lake	Oxygen, Dissolved	Due to WQS revision; DO is undetermined (50-62% of water column is less than 2 mg/L)	
OK121400010010_10	Caney River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be impaired for Aesthetics use	
OK121400010010_10	Caney River	Lead	WQS attained; mean for Lead = 1.53	
OK121400010010_10	Caney River	Enterococcus	TMDL completed; EPA TMDL ID# 39216	39216
OK121400010010_10	Caney River	Turbidity	TMDL completed; EPA TMDL ID# 39216	39216
OK121400010270_00	Curl Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39217	39217
OK121400010270_00	Curl Creek	Turbidity	TMDL completed; EPA TMDL ID# 39217	39217
OK121400010300_00	Hogshooter Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121400010300_00	Hogshooter Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39219	39219
OK121400010300_00	Hogshooter Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39219	39219
OK121400020090_00	Hudson Lake	Turbidity	WQS attained; only 10% of values exceed 25 NTU	
OK121400020090_00	Hudson Lake	Enterococcus	Change in WQS; geometric mean not exceeded	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121400020090_00	Hudson Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK121400020140_00	Little Caney River (Caney Creek)	Turbidity	TMDL completed; EPA TMDL ID# 39218	39218
OK121400020190_00	Mission Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39220	39220
OK121400040010_00	Sand Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121400050020_00	Copan Lake	Escherichia coli	Change in WQS; geometric mean not exceeded	
OK121400050020_00	Copan Lake	Oxygen, Dissolved	DO criteria met; no water column criteria exceedences in last 5 years.	
OK121500010200_00	Verdigris River	Enterococcus	TMDL completed; EPA TMDL ID# 42569	42569
OK121500010200_00	Verdigris River	Turbidity	WQS attained; only 7% of baseflow samples exceeded 50 NTU	
OK121500020090_00	Bull Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42574	42574
OK121500020100_00	Pea Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121500020100_00	Pea Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42579	42579
OK121500020100_00	Pea Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42579	42579
OK121500020260_00	Verdigris River	Enterococcus	TMDL completed; EPA TMDL ID# 42571	42571
OK121500020260_00	Verdigris River	Turbidity	TMDL completed; EPA TMDL ID# 42571	42571
OK121500020260_00	Verdigris River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121500020360_00	Dog Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121500020360_00	Dog Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42580	42580
OK121500020360_00	Dog Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42580	42580
OK121500020390_00	Cat Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121500030010_00	Verdigris River	Enterococcus	TMDL completed; EPA TMDL ID# 42572	42572
OK121500030010_00	Verdigris River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121500040020_00	Claremore Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK121510010020_00	Oologah Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK121510020010_00	Verdigris River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121510020010_00	Verdigris River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121510020010_00	Verdigris River	Enterococcus	TMDL Completed; EPA TMDL ID# 50980	50980
OK121510020010_00	Verdigris River	Turbidity	TMDL Completed; EPA TMDL ID# 50980	50980
OK121510030010_00	Big Creek	Escherichia coli	WQS attained; geometric mean of 117 is below criterion	
OK121510030010_00	Big Creek	Enterococcus	TMDL Completed; EPA TMDL ID# 50984	50984
OK121600010010_00	Neosho River	Enterococcus	TMDL completed; EPA TMDL ID# 42581	42581
OK121600010280_00	Neosho River	Nitrates	Listed in error for 2010; no samples exceed criterion	
OK121600010430_00	Chouteau Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121600010430_00	Chouteau Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42582	42582
OK121600010430_00	Chouteau Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42582	42582
OK121600010440_00	Crutchfield Branch	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600020020_00	Hudson Lake, Lower	Oxygen, Dissolved	WQS attained; no readings with more than 50% of water column below 2 mg/L since 2003	
OK121600020170_00	Neosho River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121600020170_00	Neosho River	Lead	WQS attained; dissolved data shows no impairment	
OK121600030030_00	Grand Lake O' the Cherokees, Middle	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK121600030160_00	Horse Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600030180_00	Fly Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600030190_00	Little Horse Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600030340_00	Cave Springs Branch	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600030340_00	Cave Springs Branch	Total Dissolved Solids	Originally listed in error; previous listing was based on conductivity measurements, not gravimetric TDS analysis	
OK121600030340_00	Cave Springs Branch	Chloride	Error in original listing; Not enough chloride data available to make assessment determination.	
OK121600030340_00	Cave Springs Branch	Sulfates	Error in original listing; Not enough sulfate data available to make assessment determination.	
OK121600030440_00	Elk River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121600030445_10	Honey Creek	Escherichia coli	WQS attained; geometric mean of 77 is below criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121600040010_00	Neosho River	Turbidity	WQS attained; only 1 of 11 samples exceeded turbidity criterion	
OK121600040010_00	Neosho River	Zinc	WQS attained; no samples exceeded chronic or acute criteria for zinc	
OK121600040130_00	Cow Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600040170_00	Fourmile Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600040200_00	Russell Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600040220_00	Neosho River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121600040220_00	Neosho River	Enterococcus	TMDL Completed; EPA TMDL ID# 50814	50814
OK121600050020_00	Spavinaw Lake	Phosphorus (Total)	TMDL completed; EPA TMDL ID# 38670	38670
OK121600050070_00	Eucha Lake (Upper Spavinaw)	Phosphorus (Total)	TMDL completed; EPA TMDL ID# 38667	38667
OK121600060060_10	Big Cabin Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121600060200_00	Bull Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121600070010_00	Spring River	Enterococcus	Change in WQS; Geometric mean of 16 cfu/100 mL does not exceed 33 cfu/100 mL criterion	
OK121600070010_00	Spring River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121600070110_00	Fivemile Creek	Enterococcus	TMDL completed; EPA TMDL ID# 50814	50814
OK121610000090_00	Pryor Creek	Escherichia coli	Error in original listing; not enough samples (6) to make an assessment determination	
OK121700020220_00	Tenkiller Ferry Lake, Illinois River Arm	Oxygen, Dissolved	DO support is undetermined; no instances of more than 70% of water column below 2 mg/L during assessment period	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121700030080_00	Illinois River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121700030280_00	Illinois River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK121700050010_00	Illinois River, Baron Fork	Sedimentation/Siltation	Error in original listing; aesthetic use cannot be impaired by Sedimentation/Siltation	
OK121700060080_00	Sager Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK121700060080_00	Sager Creek	Nitrates	No nitrate samples exceed 10 ppm	
OK220100010010_00	Poteau River	Enterococcus	WQS attained due to new criteria; geometric mean of 19 is below criterion	
OK220100010050_00	New Spiro Lake	Turbidity	WQS attained; only 2% of values exceed 25 NTU	
OK220100020020_00	Wister Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (62-67% of water column is below 2 mg/L)	
OK220100020020_00	Wister Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK220100040100_00	Lloyd Church Lake (Wilburton City)	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220200010010_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK220200010010_00	Arkansas River	Total Dissolved Solids	Originally listed in error; previous listing was based on conductivity measurements, not gravimetric TDS analysis	
OK220200030040_00	Brushy Creek Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK220200030040_00	Brushy Creek Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220200040010_00	Sans Bois Creek	Oxygen, Dissolved	Originally listed in error; there is no monitoring station on this segment, the monitoring station is on OK220200040010_10	
OK220200040010_00	Sans Bois Creek	pH	Originally listed in error; there is no monitoring station on this segment, the monitoring station is on OK220200040010_10	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK220200040010_00	Sans Bois Creek	Enterococcus	Originally listed in error; there is no monitoring station on this segment, the monitoring station is on OK220200040010_10	
OK220200040010_00	Sans Bois Creek	Escherichia coli	Originally listed in error; there is no monitoring station on this segment, the monitoring station is on OK220200040010_10	
OK220200040010_10	Sans Bois Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220200040010_10	Sans Bois Creek	Total Dissolved Solids	WQS attained; 0 of 24 samples exceed screening criterion of 700 mg/L	
OK220200040030_00	John Wells Lake (Stigler)	Enterococcus	Change in WQS; geometric mean not exceeded	
OK220200050040_00	Little Lee Creek	Phosphorus (Total)	Error in original listing; not enough high flow samples available to make assessment determination	
OK220300000010_00	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK220600010020_00	Eufaula Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220600010050_00	Eufaula Lake, Canadian River Arm	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220600010060_00	Eufaula Lake, Longtown Creek Arm	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK220600010070_10	Longtown Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK220600010100_20	Mill Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK220600010100_20	Mill Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (15% violate support criteria, 10% violate non-support criteria)	
OK220600010119_10	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK220600010130_00	Hay Creek	Chloride	Error in original listing; not enough information to determine use support, only one sample collected	
OK220600010130_00	Hay Creek	Total Dissolved Solids	Error in original listing; no TDS samples were collected on this waterbody	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK220600010170_00	Big Creek	Chloride	Error in original listing; no samples collected on this waterbody	
OK220600010170_00	Big Creek	Total Dissolved Solids	Error in original listing; no samples collected on this waterbody	
OK220600020050_00	Talawanda 2 Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (less than 60% of water column is below 2 mg/L)	
OK220600020060_00	Talawanda 1 Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (53-69% of water column is below 2 mg/L)	
OK220600030010_00	Brushy Creek	Sulfates	WQS attained; only 2 of 34 samples exceed criterion	
OK220600030010_10	Brushy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK220600030010_10	Brushy Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (38% violate support criteria, 5% violate non-support criteria). Supporting for Fishes Bioassessment.	
OK220600030020_00	Blue Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK220600030050_00	Peaceable Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK220600030050_00	Peaceable Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 35632	35632
OK220600040030_00	Beaver Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310800010040_00	Carter Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK310800010040_00	Carter Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK310800010120_00	Pennington Creek	Enterococcus	Change in WQS; Geometric mean of 20 cfu/100 mL does not exceed 33 cfu/100 mL criterion	
OK310800010240_00	Oil Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310800020010_00	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310800020010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39164	39164
OK310800020010_00	Washita River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK310800020040_00	Sand Branch	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310800020040_00	Sand Branch	Turbidity	TMDL completed; EPA TMDL ID# 39165	39165
OK310800020190_00	Chigley Sandy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310800030010_00	Caddo Creek	Ammonia (Un-ionized)	WQS attained; only one of 12 samples exceeded criterion	
OK310800030010_00	Caddo Creek	pH	WQS attained; only 3 of 34 values were below 6.5	
OK310800030010_00	Caddo Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42415	42415
OK310800030010_00	Caddo Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42415	42415
OK310800030070_00	Ardmore City Lake (City)	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK310800030120_00	Site # 18 Lake (Rock Creek)	Oxygen, Dissolved	Due to WQS revision; DO is undetermined (60-64% of water column is less than 2 mg/L)	
OK310800030120_00	Site # 18 Lake (Rock Creek)	Turbidity	WQS attained; Only 4% of values exceed 25 NTU	
OK310800030140_00	Jean Neustadt Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK310800030260_00	Russell Pretty Branch	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030265_00	Briar Branch	Total Dissolved Solids	Error in original listing; only 1 of 5 TDS samples exceeded 6-digit watershed criteria	
OK310800030265_00	Briar Branch	Sulfates	Error in original listing; 0 of 8 sulfate samples exceeded 6-digit watershed criteria	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310800030280_00	Pruitt Branch	Total Dissolved Solids	Error in original listing; only 1 of 6 TDS samples exceeded 6-digit watershed criteria	
OK310800030310_00	Caddo Creek Graham Branch!	Chloride	Error in original listing; only one chloride sample collected on this waterbody	
OK310800030310_00	Caddo Creek Graham Branch!	Sulfates	Error in original listing; only one sulfate sample collected on this waterbody	
OK310800030310_00	Caddo Creek Graham Branch!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030330_00	Caddo Creek, Clemscott Branch!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030340_00	Briar Branch Trib.B!	Chloride	Error in original listing; 0 of 3 chloride samples exceeded criterion	
OK310800030340_00	Briar Branch Trib.B!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030350_00	Briar Branch Trib.A!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030350_00	Briar Branch Trib.A!	Sulfates	Error in original listing; not enough information to made assessment determination, 0 of 2 sulfate samples exceeded criterion	
OK310800030360_00	Caddo Creek, Fox Branch!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030370_00	Caddo Creek Trib.!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310800030390_00	Caddo Creek North Branch Trib!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310810010010_10	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310810010010_10	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39166	39166
OK310810010050_00	Kickapoo Sandy Creek	Turbidity	WQS attained; only 5% of baseflow samples exceeded 50 NTU criterion	
OK310810010050_00	Kickapoo Sandy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39167	39167

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310810010050_00	Kickapoo Sandy Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39167	39167
OK310810010090_10	Rush Creek	Chloride	WQS attained; 0 of 15 samples exceeded criterion for the assessment period	
OK310810010186_00	RC Longmire Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK310810010186_00	RC Longmire Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (54-62% of water column is below 2 mg/L)	
OK310810010190_00	Washington Creek	Turbidity	TMDL completed; EPA TMDL ID# 39170	39170
OK310810010220_00	Maysville Lake (Wiley Post)	Oxygen, Dissolved	Change in WQS; DO is undetermined (60% of water column is below 2 mg/L)	
OK310810010220_00	Maysville Lake (Wiley Post)	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK310810010280_00	Washita River Trib 14-1N-1E!	Total Dissolved Solids	Error in original listing; not enough information to make assessment determination, 1 of 1 sample exceeds criterion	
OK310810020010_00	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310810020010_00	Washita River	Enterococcus	TMDL completed; EPA TMDL ID# 39171	39171
OK310810020010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39171	39171
OK310810020010_00	Washita River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK310810020020_00	Finn Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42423	42423
OK310810020170_00	Roaring Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310810020200_00	Lafin Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310810030010_00	Wildhorse Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42425	42425

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310810030010_00	Wildhorse Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK310810030080_00	Salt Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42424	42424
OK310810030130_00	Countyline Creek	Total Dissolved Solids	Error in original listing; 0 or 7 samples exceeded TDS criteria	
OK310810030145_00	Pernell Creek!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310810030190_00	Flat Creek Trib.!	Chloride	Error in original listing; not enough information available (1 of 1 sample exceeds)	
OK310810040140_00	Wildhorse Creek	Turbidity	WQS attained; 0% of baseflow samples exceeded 50 NTU criterion	
OK310810040140_00	Wildhorse Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39172	39172
OK310810040140_00	Wildhorse Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39172	39172
OK310810040150_00	Humphreys Lake	Oxygen, Dissolved	Change in WQS; DO measurements within 'undetermined' range	
OK310810040150_00	Humphreys Lake	Escherichia coli	Change in WQS; geometric mean not exceeded	
OK310810040150_00	Humphreys Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK310810040240_00	Velma East Creek!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310810040250_00	Velma Creek!	Sulfates	Error in original listing; 0 of 3 sulfate samples exceeded criteria	
OK310810040270_00	Passmore Cemetery Creek!	Sulfates	Error in original listing; 0 of 5 sulfate samples exceed criterion	
OK310810040280_00	Passmore Cemetery Creek Trib B!	Sulfates	Error in original listing; only 1 of 3 sulfate samples exceeded criterion	
OK310810040290_00	Wildhorse Creek Trib 10-1S-5W!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310810050040_00	Murray Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK310810050040_00	Murray Creek	Sulfates	Error in original listing; 0 of 4 samples exceeded sulfate criterion	
OK310810050110_00	Rush Creek, Trib D!	Chloride	Error in original listing; no chloride samples collected on this waterbody	
OK310820010030_00	Bitter Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310820010160_00	Ionine Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK310820020010_00	Little Washita River	Enterococcus	TMDL completed; EPA TMDL ID# 42414	42414
OK310820020070_00	Louis Burtschi Lake	Sulfates	WQS attained; no samples exceed sulfate criteria	
OK310830010010_00	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310830010010_00	Washita River	Lead	WQS attained; lead concentration mean = 4.7	
OK310830010010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39173	39173
OK310830010010_00	Washita River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK310830020020_00	Stinking Creek	Turbidity	WQS attained; only 6% of baseflow samples exceeded 50 NTU criterion	
OK310830020020_00	Stinking Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39174	39174
OK310830020020_00	Stinking Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39174	39174
OK310830020020_00	Stinking Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (15% violate support criteria, 8% violate non-support criteria)	
OK310830020060_10	Rainy Mountain Creek	Turbidity	TMDL completed; EPA TMDL ID# 39175	39175

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310830020110_00	Vanderwork Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (less than 60% of water column is below 2 mg/L)	
OK310830020110_00	Vanderwork Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK310830030010_00	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310830030010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39176	39176
OK310830030010_00	Washita River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK310830030010_10	Washita River	Sulfates	WQS attained; 0 of 13 samples exceed SS criterion, mean of 1094 mg/L is below YMS of 1130 mg/L	
OK310830030010_10	Washita River	Total Dissolved Solids	WQS attained; 0 of 13 samples exceed SS criterion, mean of 2125 mg/L is below YMS of 2235 mg/L	
OK310830030100_00	Boggy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42417	42417
OK310830030100_00	Boggy Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42417	42417
OK310830030210_00	Barnitz Creek, East	Enterococcus	TMDL completed; EPA TMDL ID# 42416	42416
OK310830030230_00	Barnitz Creek, West	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK310830030230_00	Barnitz Creek, West	Enterococcus	TMDL completed; EPA TMDL ID# 42418	42418
OK310830040010_00	Spring Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42422	42422
OK310830040010_00	Spring Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42422	42422
OK310830040030_00	Stinking Creek	Oxygen, Dissolved	WQS attained; only 8% of samples exceed criterion	
OK310830060020_00	Fort Cobb Lake	Enterococcus	Change in WQS; geometric mean not exceeded	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310830060020_00	Fort Cobb Lake	Turbidity	Meets criteria for turbidity; only 9% of values exceeded 25 NTU	
OK310830060030_00	Willow Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310830060050_00	Cobb Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42419	42419
OK310830060050_00	Cobb Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42419	42419
OK310830060080_00	Fivemile Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42420	42420
OK310830060080_00	Fivemile Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42420	42420
OK310830060130_00	Crowder Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK310840010010_00	Washita River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310840010010_00	Washita River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK310840010010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39177	39177
OK310840010060_00	Quartermaster Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK310840020010_00	Washita River	Turbidity	TMDL completed; EPA TMDL ID# 39178	39178
OK310840020020_00	Sandstone Creek	Turbidity	WQS attained; only 6% of baseflow samples exceed 50 NTU	
OK310840020020_00	Sandstone Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39180	39180
OK311100010030_00	Texoma Lake, Red River Arm, Lower	Oxygen, Dissolved	Change in WQS; DO is undetermined (53-65% of water column is below 2 mg/L)	
OK311100010190_20	Red River	Enterococcus	TMDL completed; EPA TMDL ID# 42448	42448

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311100010190_20	Red River	Turbidity	TMDL completed; EPA TMDL ID# 42448	42448
OK311100010190_20	Red River	Total Dissolved Solids	WQS attained; 0 of 41 samples exceed SS, mean of 2896 mg/L is below the YMS of 4746	
OK311100010190_20	Red River	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK311100010190_20	Red River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311100010290_00	Red Creek	Turbidity	TMDL completed; EPA TMDL ID# 39183	39183
OK311100010290_00	Red Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39183	39183
OK311100010290_00	Red Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39183	39183
OK311100010300_00	Fleetwood Creek	Turbidity	TMDL completed; EPA TMDL ID# 39184	39184
OK311100040010_00	Mud Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311100040010_00	Mud Creek	Turbidity	TMDL completed; EPA TMDL ID# 39186	39186
OK311100040060_00	Fox Branch	Chloride	Error in original listing; 0 of 6 chloride samples exceeded criterion	
OK311100040060_00	Fox Branch	Sulfates	Error in original listing; 0 of 6 samples exceeded sulfate criterion	
OK311100040080_00	Mud Creek, Lower West	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311100040080_00	Mud Creek, Lower West	Turbidity	TMDL completed; EPA TMDL ID# 39187	39187
OK311100040100_00	Negro Creek	Chloride	Error in original listing; 0 of 6 chloride samples exceeded criterion	
OK311100040150_00	Boardtree Creek	Sulfates	Error in original listing; 0 of 1 sulfate samples exceeded criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311100040155_00	Boardtree Creek, Unnamed Trib of	Chloride	Error in original listing; 0 of 2 chloride samples exceed criterion	
OK311100040155_00	Boardtree Creek, Unnamed Trib of	Sulfates	Error in original listing; 0 of 2 sulfate samples exceed criterion	
OK311100040170_00	Comanche Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK311200000010_00	Red River	Enterococcus	TMDL completed; EPA TMDL ID# 42449	42449
OK311200000010_00	Red River	Turbidity	TMDL completed; EPA TMDL ID# 42449	42449
OK311200000030_00	Beaver Creek	Turbidity	WQS attained; only 8% of baseflow samples exceed 50 NTU	
OK311200000030_00	Beaver Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39188	39188
OK311200000080_00	Dry Creek	Turbidity	TMDL completed; EPA TMDL ID# 39190	39190
OK311210000050_00	Little Beaver Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42444	42444
OK311210000050_00	Little Beaver Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42444	42444
OK311210000150_00	Cottonwood Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311300010020_00	Cache Creek, East	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311300010020_00	Cache Creek, East	Turbidity	TMDL completed; EPA TMDL ID# 39191	39191
OK311300010020_00	Cache Creek, East	Total Dissolved Solids	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK311300010020_10	Cache Creek, East	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311300010020_10	Cache Creek, East	Turbidity	TMDL completed; EPA TMDL ID# 39192	39192

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311300020010_10	Cache Creek, East	pH	WQS attained; only 3 of 35 samples violate low end criterion of 6.5 pH units	
OK311300020034_00	Ninemile Creek	Sulfates	Error in original listing; no data has been collected on this segment	
OK311300030020_00	Ellsworth Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK311300030020_00	Ellsworth Lake	Oxygen, Dissolved	DO support is undetermined; 50 - 64% of the water column is less than 2 mg/L	
OK311310010010_00	Red River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311310010010_00	Red River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311310010025_00	Hound Creek	Total Dissolved Solids	Error in original listing; no sample exceeds 700 mg/L TDS screening value	
OK311310010070_00	Suttle Creek	pH	WQS attained; only 1 of 27 values outside of acceptable range	
OK311310010070_00	Suttle Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (14% violate support criteria, 9% violate non-support criteria)	
OK311310010070_00	Suttle Creek	Turbidity	TMDL completed; EPA TMDL ID# 39193	39193
OK311310020010_00	Cache Creek, West	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311310020010_00	Cache Creek, West	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311310020010_00	Cache Creek, West	Turbidity	TMDL completed; EPA TMDL ID# 39194	39194
OK311310020010_00	Cache Creek, West	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK311310020010_00	Cache Creek, West	Sulfates	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK311310030010_00	Deep Red Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39195	39195

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311310030010_00	Deep Red Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39195	39195
OK311310030010_00	Deep Red Creek	Turbidity	TMDL completed; EPA TMDL ID# 39195	39195
OK311310030040_00	Little Deep Red Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK311310030040_00	Little Deep Red Creek	Turbidity	TMDL completed; EPA TMDL ID# 39196	39196
OK311310030050_00	Brush Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311310030050_00	Brush Creek	Turbidity	TMDL completed; EPA TMDL ID# 39198	39198
OK311310030120_00	Frederick Lake	Total Dissolved Solids	Error in original listing; listing was based on conductivity measurement, lab analyzed samples needed to determine attainment status.	
OK311500010020_10	Red River, North Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311500010020_10	Red River, North Fork	Turbidity	WQS attained for turbidity; only 4 of 49 samples (8%) exceed criterion	
OK311500010050_00	Stinking Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311500010050_00	Stinking Creek	Turbidity	TMDL completed; EPA TMDL ID# 39200	39200
OK311500010080_00	Otter Creek	Total Dissolved Solids	WQS attained; 0 of 23 samples exceeded SS criterion of 2284 mg/L, sample average of 1018 is below YMS criterion of 1777 mg/L	
OK311500010080_00	Otter Creek	Turbidity	WQS attained; 0% of baseflow samples exceeded 50 NTU criterion	
OK311500010080_00	Otter Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39201	39201
OK311500010110_00	Tepee Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311500010110_00	Tepee Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311500010110_00	Tepee Creek	Oxygen, Dissolved	WQS attained; DO measurements are supporting	
OK311500010110_00	Tepee Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK311500020040_00	Otter Creek, West	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311500020060_00	Tom Steed Lake (Mountain Park)	Chlorophyll-a	TMDL completed; EPA TMDL ID# 41064	41064
OK311500030010_00	Elk Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311500030010_00	Elk Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311500030010_00	Elk Creek	Turbidity	TMDL completed; EPA TMDL ID# 39202	39202
OK311500030040_00	Little Elk Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311500030060_00	Rocky (Hobart) Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK311500030060_00	Rocky (Hobart) Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 41063	41063
OK311510010010_10	Red River, North Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311510010010_10	Red River, North Fork	Turbidity	TMDL completed; EPA TMDL ID# 39203	39203
OK311510010010_10	Red River, North Fork	Enterococcus	WQS attained; the geometric mean of 19.6 is below the enterococcus geometric mean criterion	
OK311510010040_00	Lake Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42451	42451
OK311510010040_00	Lake Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42451	42451
OK311510010090_00	Timber Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42447	42447

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311510010090_00	Timber Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42447	42447
OK311510020060_00	Turkey Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311510020090_00	Buffalo Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK311510020090_00	Buffalo Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42428	42428
OK311510020090_00	Buffalo Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42428	42428
OK311510020090_00	Buffalo Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK311510020120_00	Sweetwater Creek	Turbidity	WQS attained; no baseflow samples exceeded 50 NTU	
OK311510020120_00	Sweetwater Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39204	39204
OK311510020120_00	Sweetwater Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 30204	39204
OK311600010020_00	Gypsum Creek	Turbidity	WQS attained; no baseflow samples exceeded 50 NTU	
OK311600010020_00	Gypsum Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39205	39205
OK311600010040_00	Sandy Creek (Lebos)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311600010040_00	Sandy Creek (Lebos)	Turbidity	TMDL completed; EPA TMDL ID# 39206	39206
OK311600010040_00	Sandy Creek (Lebos)	Enterococcus	WQS attained; the geometric mean of 102 is below the SBCR enterococcus geometric mean criterion of 165	
OK311600020010_00	Red River, Salt Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311600020010_00	Red River, Salt Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311600020010_10	Red River, Salt Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311600020010_10	Red River, Salt Fork	Selenium	Error in original listing; only two selenium samples on record, not enough information to make an assessment determination	
OK311600020060_00	Turkey Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42446	42446
OK311600020060_00	Turkey Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42446	42446
OK311800000010_00	Red River, Elm Fork	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK311800000010_00	Red River, Elm Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK311800000010_10	Red River, Elm Fork	Sulfates	WQS attained; sulfate mean is below YMS and 9.8% of samples exceeded SS	
OK311800000040_00	Haystack Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39207	39207
OK311800000040_00	Haystack Creek	Turbidity	TMDL completed; EPA TMDL ID# 39207	39207
OK311800000060_00	Station Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42450	42450
OK311800000070_00	Deer Creek	Turbidity	TMDL completed; EPA TMDL ID# 39208	39208
OK311800000070_00	Deer Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK311800000130_00	Fish Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410100010010_10	Red River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK410200030010_00	Rock Creek	Turbidity	WQS attained; only 5% of baseflow samples exceeded 50 NTU	
OK410210020020_00	Pine Creek Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410210020140_00	Little River	Enterococcus	WQS attained; the geometric mean of 28.3 is below the enterococcus geometric mean criterion	
OK410210020300_00	Cloudy Creek	Turbidity	WQS attained; only 9% of baseflow samples exceeded 50 NTU	
OK410210040010_10	Little River, Mountain Fork	Cadmium	WQS attained; no dissolved cadmium samples exceed criterion of 1.02	
OK410210040010_10	Little River, Mountain Fork	Enterococcus	WQS attained; the geometric mean of 16.1 is below the enterococcus geometric mean criterion	
OK410210060010_10	Little River, Mountain Fork	Phosphorus (Total)	Not enough information available for Phosphorus assessment; lack of high flow data for analysis	
OK410210060020_00	Buffalo Creek	Turbidity	WQS attained; no baseflow samples exceeded 50 NTU	
OK410210060020_00	Buffalo Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK410210060320_00	Beech Creek	Turbidity	WQS attained; only 5% of baseflow samples exceeded 50 NTU	
OK410210060350_00	Cow Creek	Turbidity	WQS attained; 10% of baseflow samples exceeded 50 NTU	
OK410210080010_00	Glover River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK410300010010_00	Kiamichi River	Enterococcus	Change in WQS; Geometric mean of 12.3 is below criterion	
OK410300010020_00	Gates Creek	Turbidity	WQS attained; only 9% of baseflow samples exceeded 50 NTU	
OK410300010040_00	Raymond Gary Lake	pH	WQS attained; only 8% of pH measurements below 6.5 criterion	
OK410300010040_00	Raymond Gary Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (60-67% of water column is below 2 mg/L)	
OK410300010100_00	Bird Creek	Turbidity	WQS attained; no baseflow samples exceed 50 NTU	
OK410300020220_00	Ozzie Cobb Lake	Oxygen, Dissolved	WQS attained; less than 50% of water column is below 2 mg/L	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410300030010_10	Kiamichi River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK410300030010_10	Kiamichi River	Enterococcus	WQS attained; geometric mean of 25.3 is below the enterococcus geometric mean criterion	
OK410300030210_00	Dumpling Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410300030270_00	Tenmile Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410310010010_00	Kiamichi River	Enterococcus	Change in WQS; Geometric mean of 27.1 is below criterion	
OK410310010050_00	Nanhi Waiya Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK410310010070_00	Dry Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410310010070_00	Dry Creek	Sulfates	Error in original listing; no sulfate data collected on this segment	
OK410310010070_00	Dry Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this segment	
OK410310010220_00	Carl Albert Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK410310020010_10	Kiamichi River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK410310020010_10	Kiamichi River	Enterococcus	Change in WQS; Geometric mean of 22.4 is below criterion	
OK410310030020_00	Sardis Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (56% of water column is below 2 mg/L)	
OK410310030020_00	Sardis Lake	Enterococcus	Change in WQS; Geometric mean criterion of 33 cfu/100 mL is not exceeded	
OK410310030090_00	Bolen Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410400010010_20	Red River	Enterococcus	WQS attained; geometric mean of 19.4 is below the enterococcus geometric mean criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410400010010_20	Red River	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK410400010010_20	Red River	Sulfates	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK410400010010_20	Red River	Total Dissolved Solids	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK410400010010_20	Red River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK410400010070_00	Muddy Boggy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410400010070_00	Muddy Boggy Creek	Turbidity	TMDL completed; EPA TMDL ID# 42476	42476
OK410400010130_00	Lick Creek	Turbidity	WQS attained; only 8% of baseflow samples exceeded 50 NTU	
OK410400010210_00	Whitegrass Creek	Turbidity	WQS attained; no baseflow samples exceeded 50 NTU	
OK410400030010_00	Clear Boggy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410400030010_00	Clear Boggy Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK410400030010_00	Clear Boggy Creek	Turbidity	TMDL completed; EPA TMDL ID# 42468	42468
OK410400030010_00	Clear Boggy Creek	Enterococcus	WQS attained; geometric mean of 21.1 is below the enterococcus geometric mean criterion	
OK410400030120_00	Rock Creek Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (60-67% of water column is below 2 mg/L)	
OK410400030370_00	Leader Creek	Turbidity	TMDL completed; EPA TMDL ID# 42474	42474
OK410400030490_00	Goose Creek	Turbidity	WQS attained; no baseflow samples exceed 50 NTU	
OK410400040170_00	Lake Creek	Lead	Error in original listing; Not enough samples collected to make an assessment determination, only one sample exceeded criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410400040170_00	Lake Creek	Chromium (total)	Error in original listing; Not enough samples collected to make an assessment determination, only one sample exceeded criterion	
OK410400040170_00	Lake Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this segment	
OK410400050270_10	Muddy Boggy Creek	Turbidity	TMDL completed; EPA TMDL ID# 42455	42455
OK410400050270_10	Muddy Boggy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410400050270_10	Muddy Boggy Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK410400050270_10	Muddy Boggy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42455	42455
OK410400050270_10	Muddy Boggy Creek	Copper	WQS attained; only 1 total copper value exceeded chronic criterion and no sample exceeded acute criterion. No dissolved copper values exceeded criteria.	
OK410400060010_30	Muddy Boggy Creek	Total Dissolved Solids	Error in original listing; only one TDS sample collected on this segment	
OK410400080020_00	Atoka Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK410600010010_00	Blue River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK410600010010_00	Blue River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK410600010010_00	Blue River	Enterococcus	WQS attained; geometric mean of 31.9 is below the enterococcus geometric mean criterion	
OK410600010030_00	Sulphur Creek	Turbidity	WQS attained; only 7% of baseflow samples exceeded 50 NTU	
OK410600010090_00	Bokchito Creek	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range (15% violate support criteria, 0% violate non-support criteria)	
OK410600020020_00	Sandy Creek	Oxygen, Dissolved	WQS attained; only 4% of samples fail support criterion	
OK410700000230_00	Eastman Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520500010020_00	Eufaula Lake, N. Canadian River Arm	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK520500010110_10	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520500010110_10	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 40589	40589
OK520500010110_10	Canadian River, North	Turbidity	TMDL completed; EPA TMDL ID# 40589	40589
OK520500010110_10	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520500010170_00	Bad Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40591	40591
OK520500010270_00	Wetumka City Lake	Turbidity	WQS attained; only 4% of values exceeded 25 NTU	
OK520500010270_00	Wetumka City Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (57-67% of water column is below 2 mg/L)	
OK520500010280_00	Flat Rock Creek	Oxygen, Dissolved	This segment is no longer impaired for DO. Listing was based on pre-1998 data. No current DO data is available, but stream is fully supporting based on Fishes Bioassessment.	
OK520500020010_00	Wewoka Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520500020010_00	Wewoka Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40592	40592
OK520500020027_00	Cheyarha Creek, East	Total Dissolved Solids	Error in original listing; no TDS samples collected on this segment	
OK520500020028_00	Cheyarha Creek, West	Chloride	Error in original listing; no chloride samples collected on this segment	
OK520500020028_00	Cheyarha Creek, West	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK520500020060_00	Graves Creek	Chloride	Error in original listing; no chloride samples collected on this waterbody	
OK520500020060_00	Graves Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520500020210_00	Tiger Creek	Chloride	Error in original listing; no chloride samples collected on this waterbody	
OK520500020220_00	Sportsman Lake	Escherichia coli	Change in WQS; geometric mean not exceeded	
OK520500020220_00	Sportsman Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (60% of water column is below 2 mg/L)	
OK520500020250_00	Magnolia Creek	Total Dissolved Solids	Error in original listing; 0 of 2 TDS samples exceeded criterion for this waterbody	
OK520500020270_00	Wewoka Creek, Trib A!	Chloride	WQS attained; 0 of 10 samples collected in the assessment period exceed the SS criterion and the mean does not exceed the YMS criterion	
OK520500020280_00	Oakwood Cemetery Creek!	Total Dissolved Solids	Error in original listing; only 1 TDS samples collected on this waterbody	
OK520510000010_00	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 40595	40595
OK520510000010_00	Canadian River, North	Turbidity	TMDL completed; EPA TMDL ID# 40595	40595
OK520510000010_00	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520510000040_00	Okemah Creek	Chloride	Error in original listing; no chloride samples collected on this waterbody	
OK520510000050_00	Sand Creek	Chloride	Error in original listing; not enough information to make an assessment, only 1 chloride sample collected on this waterbody	
OK520510000110_00	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 40590	40590
OK520510000110_00	Canadian River, North	Turbidity	TMDL completed; EPA TMDL ID# 40590	40590
OK520510000110_10	Canadian River, North	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK520510000110_10	Canadian River, North	pH	WQS attained; only 2 of 34 pH values (5%) exceeded upper pH criterion of 9.0	
OK520510000110_10	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520510000110_20	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520510000110_20	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38886	38886
OK520510000280_00	Shawnee Twin Lake #1 (South)	Oxygen, Dissolved	WQS attained; less than 47% of water column is below 2 mg/L	
OK520510000300_00	Shawnee Twin Lake #2 (North)	Oxygen, Dissolved	Change in WQS; DO is undetermined (58% of water column is below 2 mg/L)	
OK520520000010_00	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000010_00	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520520000010_00	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38869	38869
OK520520000010_00	Canadian River, North	Total Dissolved Solids	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK520520000010_10	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38885	38885
OK520520000010_10	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000010_20	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000010_20	Canadian River, North	Enterococcus	Error in original listing; USGS station, no Enterococcus samples collected on this segment	
OK520520000010_20	Canadian River, North	Escherichia coli	Error in original listing; USGS station, no E. coli samples collected on this segment	
OK520520000010_30	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38883	38883
OK520520000010_30	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000010_30	Canadian River, North	Escherichia coli	TMDL completed; EPA TMDL ID# 38883	38883

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520520000010_40	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000010_40	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38882	38882
OK520520000150_00	Crooked Oak Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 38875	38875
OK520520000150_00	Crooked Oak Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000210_00	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000210_00	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 38881	38881
OK520520000240_00	Mustang Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 38874	38874
OK520520000250_00	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520520000250_00	Canadian River, North	Sulfates	WQS attained; sample mean of 194 is below YMS of 224 and no sample exceeds the SS of 278	
OK520530000010_10	Canadian River, North	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520530000010_10	Canadian River, North	Lead	WQS attained; no total or dissolved samples exceeded criteria	
OK520530000010_10	Canadian River, North	Cadmium	WQS attained; no dissolved samples exceed criterion	
OK520530000010_10	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520530000030_00	Shell Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520600010010_00	Canadian River	Oil and Grease	Error in original listing; listing was based on incorrect evaluation of data	
OK520600010010_00	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520600010060_00	Factory Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520600020010_00	Canadian River	Sulfates	Error in original listing; not enough information to make an assessment, only 1 sulfate sample exceeds criterion	
OK520600020010_00	Canadian River	Total Dissolved Solids	Error in original listing; not enough information to make an assessment, only one TDS sample collected on this waterbody	
OK520600020170_00	Julian Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520600020170_00	Julian Creek	Chloride	Error in original listing; 0 of 2 chloride samples exceed criterion	
OK520600020170_00	Julian Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK520600030030_00	Spring Brook	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520610010010_05	Canadian River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK520610010010_05	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520610010080_00	Willow Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520610010180_00	Bishop Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520610020120_00	Buggy Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520610020150_10	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520610020165_00	Trib8!	Chloride	Error in original listing; 0 of 7 chloride samples exceed criterion	
OK520610020165_00	Trib8!	Total Dissolved Solids	Error in original listing; 0 of 7 TDS samples exceed criterion	
OK520610020165_00	Trib8!	Sulfates	Error in original listing; 0 of 7 sulfate samples exceed criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520610030040_00	Purcell Lake	Oxygen, Dissolved	WQS attained; less than 50% of water column is below 2 mg/L	
OK520610030080_00	Walnut Creek, North Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520620010010_00	Canadian River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520620010100_00	American Horse Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK520620010120_00	Bear Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520620020010_00	Canadian River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK520620020010_00	Canadian River	Sulfates	WQS attained; sulfate mean of 438.5 mg/L is below YMS and only 7% of samples exceeded SS	
OK520620020010_00	Canadian River	Total Dissolved Solids	WQS attained; mean of 1410 mg/L is below YMS and only 3% of samples exceeded SS	
OK520620020010_00	Canadian River	Enterococcus	WQS attained; geometric mean of 24.3 is below the enterococcus geometric mean criterion	
OK520620020010_00	Canadian River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520620020070_00	Fiddlers Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK520620020080_00	Squirrel Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK520620020090_00	Trail Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520620030050_00	Red Trail Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520620050200_00	Lloyd Vincent Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (58% of water column is below 2 mg/L)	
OK520700010020_00	Eufaula Lake, Canadian River Deep Fork	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520700020010_10	Canadian River, Deep Fork	Turbidity	TMDL completed; EPA TMDL ID# 41134	41134
OK520700020010_10	Canadian River, Deep Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520700020010_10	Canadian River, Deep Fork	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK520700020010_10	Canadian River, Deep Fork	Enterococcus	TMDL completed; EPA TMDL ID# 41134	41134
OK520700020060_00	Dripping Springs Lake (Salt Creek Structure	Enterococcus	Change in WQS; geometric mean not exceeded	
OK520700020290_00	Okemah Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (57-69% of water column is below 2 mg/L)	
OK520700020290_00	Okemah Lake	Turbidity	WQS attained; only 10% of values exceed 25 NTU	
OK520700030100_00	Salt Creek	Escherichia coli	WQS attained; geometric mean of 68 is below criterion	
OK520700030100_00	Salt Creek	Oxygen, Dissolved	WQS attained; all DO measurements supporting	
OK520700030100_00	Salt Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41065	41065
OK520700030220_00	Camp Creek	Oxygen, Dissolved	WQS attained; only 5% of measurments not supporting	
OK520700030220_00	Camp Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41066	41066
OK520700040010_00	Canadian River, Deep Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520700040010_00	Canadian River, Deep Fork	Enterococcus	TMDL completed; EPA TMDL ID# 41069	41069
OK520700040010_00	Canadian River, Deep Fork	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK520700040010_00	Canadian River, Deep Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520700040010_00	Canadian River, Deep Fork	Turbidity	TMDL completed; EPA TMDL ID# 41069	41069
OK520700040020_00	Dry Creek	Turbidity	TMDL completed; EPA TMDL ID# 41070	41070
OK520700040020_00	Dry Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41070	41070
OK520700040020_00	Dry Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41070	41070
OK520700040220_00	Prague Lake	Oxygen, Dissolved	WQS attained; less than 50% of water column is below 2 mg/L	
OK520700040260_00	Quapaw Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41072	41072
OK520700050020_00	Bellcow Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41078	41078
OK520700050060_00	Chandler Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK520700050060_00	Chandler Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK520700050200_00	Opossum Creek	Turbidity	TMDL completed; EPA TMDL ID# 41077	41077
OK520700060130_10	Little Deep Fork Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520700060130_10	Little Deep Fork Creek	Turbidity	TMDL completed; EPA TMDL ID# 41133	41133
OK520700060140_00	Catfish Creek	Turbidity	TMDL completed; EPA TMDL ID# 41132	41132
OK520710020060_00	Canadian River, Deep Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520800010010_00	Little River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK520800010010_00	Little River	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520800010010_00	Little River	Lead	WQS attained; mean of lead samples is 4.8ug/L	
OK520800010010_00	Little River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK520800030010_00	Salt Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK620900010020_00	Keystone Lake, Cimarron River Arm, Lower	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK620900010170_10	Cimarron River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620900010170_10	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 42499	42499
OK620900010170_10	Cimarron River	Turbidity	TMDL completed; EPA TMDL ID# 42499	42499
OK620900010170_10	Cimarron River	Total Dissolved Solids	WQS attained; mean of 2772 mg/L is below YMS and only 8% of samples exceeded SS	
OK620900010170_10	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620900010180_00	Lagoon Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42501	42501
OK620900010250_00	Tiger Creek	Chloride	WQS attained; 0 of 19 samples exceed SS, mean is below YMS	
OK620900010250_00	Tiger Creek	Total Dissolved Solids	WQS attained; 0 of 15 samples exceed criterion, mean is below YMS	
OK620900010290_00	Euchee Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42509	42509
OK620900010290_00	Euchee Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42509	42509
OK620900010290_00	Euchee Creek	Turbidity	WQS attained; only 6% of baseflow samples exceeded 50 NTU	
OK620900010310_00	Cottonwood Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620900010310_00	Cottonwood Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42504	42504
OK620900010310_00	Cottonwood Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42504	42504
OK620900020020_00	Salt Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42512	42512
OK620900020020_00	Salt Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42512	42512
OK620900020050_00	Council Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42511	42511
OK620900020050_00	Council Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42511	42511
OK620900030010_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 42492	42492
OK620900030010_00	Cimarron River	Turbidity	TMDL completed; EPA TMDL ID# 42492	42492
OK620900030010_00	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620900030010_00	Cimarron River	Total Dissolved Solids	WQS attained; mean of 3059 mg/L is below YMS and only 9.8% of samples exceeded SS	
OK620900030080_00	Dugout Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42513	42513
OK620900030080_00	Dugout Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42513	42513
OK620900030180_00	Langston Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK620900030230_00	Beaver Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42502	42502
OK620900030230_00	Beaver Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42502	42502
OK620900030230_00	Beaver Creek	Turbidity	TMDL completed; EPA TMDL ID# 42502	42502

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620900030260_00	Beaver Creek, West	Turbidity	TMDL completed; EPA TMDL ID# 42505	42505
OK620900030270_00	Beaver Creek, Middle	Chloride	Error in original listing; only 1 of 6 samples exceed criterion	
OK620900030270_00	Beaver Creek, Middle	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK620900040040_00	Stillwater Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42510	42510
OK620900040040_00	Stillwater Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42510	42510
OK620900040040_00	Stillwater Creek	Turbidity	TMDL completed; EPA TMDL ID# 42510	42510
OK620900040040_00	Stillwater Creek	Nitrates	Delisted for nitrates; stream is not nutrient threatened	
OK620900040190_00	Boomer Lake	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620900040190_00	Boomer Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK620900040240_00	McMurtry Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (57-62% of water column is below 2 mg/L)	
OK620900040280_00	Carl Blackwell Lake	Enterococcus	Change in WQS; geometric mean not exceeded	
OK620900040280_00	Carl Blackwell Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK620910010010_00	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620910020010_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 40623	40623
OK620910020010_00	Cimarron River	Escherichia coli	TMDL completed; EPA TMDL ID# 40623	40623
OK620910020010_00	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620910020010_00	Cimarron River	Chloride	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK620910020010_00	Cimarron River	Sulfates	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK620910020010_00	Cimarron River	Total Dissolved Solids	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK620910020010_10	Cimarron River	Escherichia coli	TMDL completed; EPA TMDL ID# 40622	40622
OK620910020010_10	Cimarron River	Enterococcus	Change in WQS; Geometric mean of 28.8 is below criterion	
OK620910020010_10	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620910020100_00	Salt Creek	Chloride	Error in original listing; listing was based on improper criteria from Appendix F. No samples exceed Appendix F station criteria (#1584) for this segment.	
OK620910020100_00	Salt Creek	Sulfates	Error in original listing; listing was based on improper criteria from Appendix F. No samples exceed Appendix F station criteria (#1584) for this segment.	
OK620910020100_00	Salt Creek	Total Dissolved Solids	Error in original listing; listing was based on improper criteria from Appendix F. No samples exceed Appendix F station criteria (#1584) for this segment.	
OK620910020270_00	Elm Creek	Turbidity	TMDL completed; EPA TMDL ID# 38651	38651
OK620910030010_00	Skeleton Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910030010_00	Skeleton Creek	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK620910030010_00	Skeleton Creek	Turbidity	TMDL completed; EPA TMDL ID# 38652	38652
OK620910030010_00	Skeleton Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620910030040_00	Otter Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42583	42583
OK620910030040_00	Otter Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 42583	42583

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620910040010_00	Cottonwood Creek	Turbidity	WQS attained; no samples exceed criterion	
OK620910040010_20	Cottonwood Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910040010_20	Cottonwood Creek	Turbidity	TMDL completed; EPA TMDL ID# 38653	38653
OK620910040060_00	Guthrie Lake	Escherichia coli	Change in WQS; geometric mean not exceeded	
OK620910040060_00	Guthrie Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 41750	41750
OK620910040080_00	Liberty Lake	Oxygen, Dissolved	WQS attained; less than 50% of water column is below 2 mg/L	
OK620910040080_00	Liberty Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 41751	41751
OK620910040120_00	Deer Creek	Turbidity	TMDL completed; EPA TMDL ID# 38654	38654
OK620910040140_00	Bluff Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910040140_00	Bluff Creek	Enterococcus	TMDL completed; EPA TMDL ID# 42517	42517
OK620910050010_00	Kingfisher Creek	Turbidity	TMDL completed; EPA TMDL ID# 38655	38655
OK620910060010_00	Turkey Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910060010_00	Turkey Creek	Turbidity	WQS attained; only 3% of baseflow samples exceeded 50 NTU	
OK620910060020_00	Little Turkey Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910060030_00	Buffalo Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620910060110_00	Clear Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620920010010_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 40624	40624
OK620920010010_00	Cimarron River	Turbidity	TMDL completed; EPA TMDL ID# 40624	40624
OK620920010010_00	Cimarron River	Escherichia coli	TMDL completed; EPA TMDL ID# 40624	40624
OK620920010080_00	Cottonwood Creek	Turbidity	TMDL completed; EPA TMDL ID# 40618	40618
OK620920010130_00	Griever Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40621	40621
OK620920010140_00	Griever Creek, East	Escherichia coli	WQS attained; geometric mean of 116 is below criterion	
OK620920010180_00	Main Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40617	40617
OK620920010180_00	Main Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40617	40617
OK620920020010_00	Cimarron River	Escherichia coli	TMDL completed; EPA TMDL ID# 40615	40615
OK620920020080_00	Long Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40616	40616
OK620920020080_00	Long Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40616	40616
OK620920030010_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 40609	40609
OK620920030010_00	Cimarron River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620920030010_00	Cimarron River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK620920030010_00	Cimarron River	Escherichia coli	TMDL completed; EPA TMDL ID# 40609	40609
OK620920030010_00	Cimarron River	Total Dissolved Solids	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620920040010_00	Eagle Chief Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40625	40625
OK620920040010_00	Eagle Chief Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40625	40625
OK620920040170_00	Lojo creek	Sulfates	Error in original listing; 0 of 7 sulfate samples exceed criterion	
OK620920050010_00	Buffalo Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40612	40612
OK620920050010_00	Buffalo Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40612	40612
OK620920050050_00	Sand Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 40614	40614
OK620920050050_00	Sand Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40614	40614
OK620930000010_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 40587	40587
OK620930000010_00	Cimarron River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK620930000010_00	Cimarron River	Escherichia coli	WQS attained; geometric mean of 115 is below criterion	
OK620930000100_00	Crooked Creek	Enterococcus	TMDL completed; EPA TMDL ID# 40588	40588
OK620930000100_00	Crooked Creek	Escherichia coli	WQS attained; geometric mean of 124 is below criterion	
OK621000010010_30	Arkansas River, Salt Fork	Enterococcus	TMDL completed; EPA TMDL ID# 41080	41080
OK621000010010_30	Arkansas River, Salt Fork	Turbidity	TMDL completed; EPA TMDL ID# 41080	41080
OK621000010010_30	Arkansas River, Salt Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK621000010060_00	Bird's Nest Creek	Chloride	Error in original listing; 0 of 9 chloride samples exceed criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621000010060_00	Bird's Nest Creek	Total Dissolved Solids	Error in original listing; 0 of 6 TDS samples exceed criterion	
OK621000030010_00	Bois d' Arc Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41129	41129
OK621000030010_00	Bois d' Arc Creek	Escherichia coli	WQS attained; geometric mean of 120 is below criterion	
OK621000040010_00	Deer Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41084	41084
OK621000040010_00	Deer Creek	Chloride	WQS attained; 0 of 20 samples exceed criterion	
OK621000040010_00	Deer Creek	Escherichia coli	WQS attained; geometric mean of 114 is below criterion	
OK621000050010_00	Pond Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41115	41115
OK621000050010_00	Pond Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41115	41115
OK621000060010_00	Crooked Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41116	41116
OK621000060060_00	Duel Creek	Chloride	Error in original listing; 0 of 9 chloride samples exceed criterion	
OK621010010010_00	Arkansas River, Salt Fork	Turbidity	TMDL completed; EPA TMDL ID# 41121	41121
OK621010010010_00	Arkansas River, Salt Fork	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK621010010090_00	Clay Creek	Escherichia coli	Originally listed in error; monitoring station is located on West Clay Creek (OK6210100130_00)	
OK621010010090_00	Clay Creek	Chloride	Originally listed in error; monitoring station is located on West Clay Creek (OK6210100130_00)	
OK621010010090_00	Clay Creek	Enterococcus	Originally listed in error; monitoring station is located on West Clay Creek (OK6210100130_00)	
OK621010010090_00	Clay Creek	Fishes Bioassessments	Originally listed in error; monitoring station is located on West Clay Creek (OK6210100130_00)	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621010010160_00	Arkansas River, Salt Fork	Turbidity	TMDL completed; EPA TMDL ID# 41122	41122
OK621010010160_00	Arkansas River, Salt Fork	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621010010160_00	Arkansas River, Salt Fork	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK621010010160_00	Arkansas River, Salt Fork	Enterococcus	TMDL completed; EPA TMDL ID# 41122	41122
OK621010010160_00	Arkansas River, Salt Fork	Escherichia coli	TMDL completed; EPA TMDL ID# 41122	41122
OK621010010160_00	Arkansas River, Salt Fork	Sulfates	Error in original listing; improper Appendix F criteria were used, reassessed using station specific criteria	
OK621010010230_00	Turkey Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41098	41098
OK621010010230_00	Turkey Creek	Chloride	WQS attained; 0 of 18 samples exceed segment criterion	
OK621010010230_00	Turkey Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41098	41098
OK621010010240_00	Boggy Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621010010270_00	Yellowstone Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41123	41123
OK621010020010_00	Sandy Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41124	41124
OK621010020010_00	Sandy Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41124	41124
OK621010030010_00	Medicine Lodge River	Escherichia coli	TMDL completed; EPA TMDL ID# 41119	41119
OK621010030010_00	Medicine Lodge River	Enterococcus	TMDL completed; EPA TMDL ID# 41119	41119
OK621010030010_00	Medicine Lodge River	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621010030030_00	Driftwood Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41117	41117
OK621010030030_00	Driftwood Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41117	41117
OK621010030030_00	Driftwood Creek	Turbidity	TMDL completed; EPA TMDL ID# 41117	41117
OK621010030080_00	Capron Creek, North	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621100000010_00	Chikaskia River	Enterococcus	TMDL completed; EPA TMDL ID# 41088	41088
OK621100000010_10	Chikaskia River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621100000010_10	Chikaskia River	Enterococcus	TMDL completed; EPA TMDL ID# 41128	41128
OK621100000010_10	Chikaskia River	Turbidity	WQS attained; only 5% of baseflow samples exceeded 50 NTU	
OK621100000010_10	Chikaskia River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK621100000030_00	Duck Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621100000030_00	Duck Creek	Sulfates	Error in original listing; only 1 of 1 sulfate sample exceeds criterion	
OK621100000033_00	Duckling Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621100000033_00	Duckling Creek	Chloride	Error in original listing; only 1 chloride sample collected on this waterbody	
OK621100000040_00	Peckham Creek	Total Dissolved Solids	Error in original listing; no TDS data collected on this waterbody	
OK621100000050_00	Stink Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621100000070_00	Grainville Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621100000100_00	Bitter Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41086	41086
OK621100000130_00	Scatter Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200010020_00	Keystone Lake	Oxygen, Dissolved	Change in WQS; DO falls within undetermined range	
OK621200010200_00	Arkansas River	Turbidity	TMDL completed; EPA TMDL ID# 41096	41096
OK621200010200_00	Arkansas River	Enterococcus	WQS attained; geometric mean of 22.3 is below criterion	
OK621200010200_00	Arkansas River	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK621200010270_00	Cleveland Lake	Oxygen, Dissolved	DO support status is undetermined; no instances of >70% of the water column below 2 mg/L during the assessment period.	
OK621200010400_00	Gray Horse Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621200020020_00	Doga Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621200020020_00	Doga Creek	Escherichia coli	WQS attained; geometric mean of 123 is below criterion	
OK621200020130_00	Sooner Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (52-54% of water column is below 2 mg/L)	
OK621200020130_00	Sooner Lake	Total Dissolved Solids	Previously listed in error; incorrect analytical method was used to calculate TDS.	
OK621200020130_00	Sooner Lake	Sulfates	WQS attained; no samples exceeded 250 mg/L	
OK621200020210_00	Lake Ponca	Enterococcus	Change in WQS; geometric mean not exceeded	
OK621200030010_00	Black Bear Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621200030010_00	Black Bear Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41131	41131

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621200030010_00	Black Bear Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41131	41131
OK621200030010_00	Black Bear Creek	Turbidity	TMDL completed; EPA TMDL ID# 39182	39182
OK621200030010_00	Black Bear Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK621200030010_00	Black Bear Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK621200030060_00	Lone Chimney Lake	Oxygen, Dissolved	Change in WQS; DO is undetermined (56-58% of water column is below 2 mg/L)	
OK621200030260_10	Black Bear Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030360_00	Gansel Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030360_00	Gansel Creek	Chloride	Error in original listing; no enough information to make assessment determination, only 1 chloride sample collected on this waterbody	
OK621200030360_00	Gansel Creek	Sulfates	Error in original listing; no enough information to make assessment determination, only 1 sulfate sample collected on this waterbody	
OK621200030396_00	Lucien Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030396_00	Lucien Creek	Sulfates	Error in original listing; only 1 of 4 sulfate samples exceed criterion	
OK621200030420_00	Garber Creek	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030420_00	Garber Creek	Sulfates	Error in original listing; 0 of 3 sulfate samples exceed criterion	
OK621200030490_00	Garber Field!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030500_00	St. John!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200030510_00	Shale!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621200030560_00	Lutheran!	Total Dissolved Solids	Error in original listing; no TDS samples collected on this waterbody	
OK621200040010_00	Salt Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621200040040_00	Fairfax Lake	Oxygen, Dissolved	Due to a change in WQS, DO water column readings now fall within the "undetermined" range	
OK621200050010_00	Red Rock Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41108	41108
OK621200050010_00	Red Rock Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41108	41108
OK621200050010_00	Red Rock Creek	Turbidity	TMDL completed; EPA TMDL ID# 41108	41108
OK621200050010_10	Red Rock Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41113	41113
OK621200050010_10	Red Rock Creek	Turbidity	TMDL completed; EPA TMDL ID# 41113	41113
OK621210000020_00	Kaw Lake, Lower	Oxygen, Dissolved	Change in WQS; DO within 'undetermined' range	
OK621210000030_10	Arkansas River	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK621210000040_00	Kaw Lake, Upper	Oxygen, Dissolved	Change in WQS; DO concentrations within 'undetermined' range	
OK621210000050_10	Beaver Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41090	41090
OK621210000050_10	Beaver Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41090	41090
OK621210000270_00	Chilocco Creek	Enterococcus	TMDL completed; EPA TMDL ID# 41089	41089
OK621210000270_00	Chilocco Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 41089	41089
OK621210000270_00	Chilocco Creek	Turbidity	TMDL completed; EPA TMDL ID# 41089	41089

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK720500010010_00	Canadian River, North	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500010070_00	Bent Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK720500010140_10	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500010200_00	Indian Creek	Fishes Bioassessments	WQS attained; Fishes bioassessment result is supporting	
OK720500020010_00	Beaver River (North Canadian)	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720500020010_00	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 39225	39225
OK720500020010_00	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500020030_00	Wolf Creek	Turbidity	TMDL completed; EPA TMDL ID# 39240	39240
OK720500020050_00	Otter Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39234	39234
OK720500020050_00	Otter Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39234	39234
OK720500020070_00	Clear Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39227	39227
OK720500020100_00	Spring Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39237	39237
OK720500020100_00	Spring Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39237	39237
OK720500020130_00	Kiowa Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39233	39233
OK720500020140_00	Beaver River (North Canadian)	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720500020140_00	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 39224	39224

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK720500020140_00	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500020140_00	Beaver River (North Canadian)	Total Dissolved Solids	Originally listed in error; previous listing was based on conductivity measurements, not gravimetric TDS analysis	
OK720500020250_00	Duck Pond Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39229	39229
OK720500020290_00	Beaver River (North Canadian)	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720500020290_00	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 39223	39223
OK720500020290_00	Beaver River (North Canadian)	Escherichia coli	TMDL completed; EPA TMDL ID# 39223	39223
OK720500020290_00	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500020450_00	Beaver River (North Canadian)	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720500020450_00	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 39222	39222
OK720500020450_00	Beaver River (North Canadian)	Escherichia coli	TMDL completed; EPA TMDL ID# 39222	39222
OK720500020450_00	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500020500_00	Palo Duro Creek	Turbidity	TMDL completed; EPA TMDL ID# 39236	39236
OK720500020500_10	Palo Duro Creek	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720500020500_10	Palo Duro Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39235	39235
OK720500030010_00	Wolf Creek	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720500030010_00	Wolf Creek	Enterococcus	WQS attained; geometric mean of 27.2 is below the enterococcus geometric mean criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK720510000190_00	Beaver River (North Canadian)	Fecal Coliform	Change in WQS; Fecal coliform was removed from WQS.	
OK720510000190_00	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 39221	39221
OK720510000190_00	Beaver River (North Canadian)	Escherichia coli	TMDL completed; EPA TMDL ID# 39221	39221
OK720510000190_00	Beaver River (North Canadian)	Thallium	WQS attained; all samples collected during assessment period were below detection limit	
OK720510000190_00	Beaver River (North Canadian)	Sedimentation/Siltation	Error in original listing; Sedimentation/Siltation cannot be listed for Aesthetics use	
OK720900000180_00	Cimarron River	Enterococcus	TMDL completed; EPA TMDL ID# 40586	40586
OK720900000240_00	Carl Etling Lake	Total Dissolved Solids	Originally listed in error; not enough TDS data available to make an assessment	

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Appendix E - Completed TMDLs

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK120400010260_00	Arkansas River	Enterococcus	09/27/2012	42530
OK120400010400_00	Coody Creek	Enterococcus	09/27/2012	42532
OK120400010400_00	Coody Creek	Escherichia coli	09/27/2012	42532
OK120400020010_00	Dirty Creek	Enterococcus	09/27/2012	42533
OK120400020010_00	Dirty Creek	Turbidity	09/27/2012	42533
OK120400020030_00	Dirty Creek, South Fork	Enterococcus	09/27/2012	42535
OK120400020110_00	Dirty Creek, Georges Fork	Enterococcus	09/27/2012	42536
OK120400020160_00	Butler Creek	Enterococcus	09/27/2012	42538
OK120400020160_00	Butler Creek	Escherichia coli	09/27/2012	42538
OK120400020160_00	Butler Creek	Turbidity	09/27/2012	42538
OK120400020190_00	Elk Creek	Enterococcus	09/27/2012	42537
OK120400020240_00	Shady Grove Creek	Enterococcus	09/27/2012	42539
OK120410010080_00	Arkansas River	Enterococcus	11/18/2008	35681
OK120410010100_00	Cloud Creek	Enterococcus	09/27/2012	42540
OK120410010100_00	Cloud Creek	Turbidity	09/27/2012	42540
OK120410010210_00	Haikey Creek	Escherichia coli	11/18/2008	35680
OK120410010220_00	Snake Creek	Enterococcus	09/27/2012	42541
OK120410010220_00	Snake Creek	Turbidity	09/27/2012	42541
OK120420010010_00	Arkansas River	Enterococcus	11/18/2008	35669
OK120420010130_00	Arkansas River	Enterococcus	09/27/2012	42564
OK120420020010_00	Polecat Creek	Escherichia coli	09/27/2012	42566
OK120420020050_00	Polecat Creek	Enterococcus	09/27/2012	42568
OK121300010010_00	Bird Creek	Enterococcus	08/16/2011	40585
OK121300010010_00	Bird Creek	Escherichia coli	08/16/2011	40585
OK121300010060_00	Ranch Creek	Escherichia coli	08/16/2011	40972
OK121300010090_00	Coal Creek	Escherichia coli	08/16/2011	40582
OK121300020010_10	Bird Creek	Enterococcus	09/29/2010	39211
OK121300040010_00	Hominy Creek	Enterococcus	09/29/2010	39215

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK121300040280_00	Hominy Creek	Enterococcus	09/22/2010	39160
OK121400010010_10	Caney River	Enterococcus	09/28/2010	39216
OK121400010010_10	Caney River	Turbidity	09/28/2010	39216
OK121400010270_00	Curl Creek	Enterococcus	09/28/2010	39217
OK121400010270_00	Curl Creek	Turbidity	09/28/2010	39217
OK121400010300_00	Hogshooter Creek	Enterococcus	09/28/2010	39219
OK121400010300_00	Hogshooter Creek	Escherichia coli	09/28/2010	39219
OK121400020140_00	Little Caney River	Turbidity	09/28/2010	39218
OK121400020190_00	Mission Creek	Enterococcus	09/28/2010	39220
OK121400040010_00	Sand Creek	Enterococcus	09/15/2009	37064
OK121400040010_00	Sand Creek	Escherichia coli	09/15/2009	37064
OK121500010200_00	Verdigris River	Enterococcus	09/27/2012	42569
OK121500010200_00	Verdigris River	Turbidity	09/27/2012	42569
OK121500020090_00	Bull Creek	Enterococcus	09/27/2012	42574
OK121500020100_00	Pea Creek	Enterococcus	09/27/2012	42579
OK121500020100_00	Pea Creek	Escherichia coli	09/27/2012	42579
OK121500020260_00	Verdigris River	Enterococcus	09/27/2012	42571
OK121500020260_00	Verdigris River	Turbidity	09/27/2012	42571
OK121500020360_00	Dog Creek	Enterococcus	09/27/2012	42580
OK121500020360_00	Dog Creek	Escherichia coli	09/27/2012	42580
OK121500020360_00	Dog Creek	Oxygen, Dissolved	11/03/2006	31658
OK121500020390_00	Cat Creek	Oxygen, Dissolved	11/03/2006	31657
OK121500030010_00	Verdigris River	Enterococcus	09/27/2012	42572
OK121510020010_00	Verdigris River	Enterococcus	09/30/2012	50980
OK121510020010_00	Verdigris River	Turbidity	09/30/2012	50980
OK121510030010_00	Big Creek	Enterococcus	09/30/2012	50984
OK121600010010_00	Neosho River	Enterococcus	09/27/2012	42581
OK121600010060_00	Ranger Creek	Enterococcus	07/28/2008	34847
OK121600010100_00	Fourteenmile Creek	Enterococcus	07/28/2008	34848

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK121600010430_00	Chouteau Creek	Enterococcus	09/27/2012	42582
OK121600010430_00	Chouteau Creek	Escherichia coli	09/27/2012	42582
OK121600010440_00	Crutchfield Branch	Enterococcus	07/28/2008	34849
OK121600010440_00	Crutchfield Branch	Escherichia coli	07/28/2008	34849
OK121600030090_00	Drowning Creek	Enterococcus	07/28/2008	34851
OK121600030090_00	Drowning Creek	Escherichia coli	07/28/2008	34851
OK121600030160_00	Horse Creek	Escherichia coli	07/28/2008	34852
OK121600030190_00	Little Horse Creek	Enterococcus	07/28/2008	34854
OK121600030190_00	Little Horse Creek	Escherichia coli	07/28/2008	34854
OK121600030340_00	Cave Springs Branch	Enterococcus	07/28/2008	34855
OK121600030340_00	Cave Springs Branch	Escherichia coli	07/28/2008	34855
OK121600030440_00	Elk River	Enterococcus	07/28/2008	34856
OK121600030445_00	Honey Creek	Enterococcus	07/28/2008	34857
OK121600030445_00	Honey Creek	Escherichia coli	07/28/2008	34857
OK121600030510_00	Sycamore Creek	Enterococcus	07/28/2008	34858
OK121600040060_00	Tar Creek	Enterococcus	07/28/2008	34919
OK121600040220_00	Neosho River	Enterococcus	10/01/2012	50814
OK121600050020_00	Spavinaw Lake	Phosphorus (Total)	06/09/2010	38670
OK121600050070_00	Eucha Lake	Phosphorus (Total)	06/09/2010	38667
OK121600070110_00	Fivemile Creek	Enterococcus	10/01/2012	50814
OK220100040020_00	Fourche Maline Creek	Enterococcus	10/28/2008	35634
OK220200040010_40	Sans Bois Creek	Enterococcus	10/20/2008	35635
OK220200040010_40	Sans Bois Creek	Escherichia coli	10/20/2008	35635
OK220200040050_00	Sans Bois Creek, Mountain Fork	Escherichia coli	10/20/2008	35626
OK220600010070_10	Longtown Creek	Enterococcus	10/20/2008	35627
OK220600010070_10	Longtown Creek	Escherichia coli	10/20/2008	35627
OK220600010100_20	Mill Creek	Enterococcus	10/20/2008	35628
OK220600030010_00	Brushy Creek	Enterococcus	10/20/2008	35630
OK220600030010_10	Brushy Creek	Enterococcus	10/20/2008	35631

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK220600030010_10	Brushy Creek	Escherichia coli	10/20/2008	35631
OK220600030020_00	Blue Creek	Enterococcus	10/20/2008	35636
OK220600030020_00	Blue Creek	Escherichia coli	10/20/2008	35636
OK220600030050_00	Peaceable Creek	Enterococcus	10/20/2008	35632
OK220600030050_00	Peaceable Creek	Escherichia coli	10/20/2008	35632
OK220600040030_00	Beaver Creek	Escherichia coli	10/20/2008	35633
OK220600050060_00	Mud Creek	Oxygen, Dissolved	11/30/1999	831
OK310800020010_00	Washita River	Enterococcus	09/21/2007	33274
OK310800020010_00	Washita River	Turbidity	09/22/2010	39164
OK310800020040_00	Sand Branch	Turbidity	09/22/2010	39165
OK310800020190_00	Chigley Sandy Creek	Enterococcus	09/21/2007	33276
OK310800020190_00	Chigley Sandy Creek	Escherichia coli	09/21/2007	33276
OK310800030010_00	Caddo Creek	Enterococcus	09/20/2012	42415
OK310800030010_00	Caddo Creek	Escherichia coli	09/20/2012	42415
OK310800030020_00	Sand Creek	Ammonia	01/30/2004	10625
OK310800030020_00	Sand Creek	Oxygen, Dissolved	01/30/2004	10625
OK310810010010_10	Washita River	Enterococcus	09/21/2007	33277
OK310810010010_10	Washita River	Turbidity	09/22/2010	39166
OK310810010050_00	Kickapoo Sandy Creek	Enterococcus	09/22/2010	39167
OK310810010050_00	Kickapoo Sandy Creek	Escherichia coli	09/22/2010	39167
OK310810010050_00	Kickapoo Sandy Creek	Turbidity	09/22/2010	39167
OK310810010190_00	Washington Creek	Turbidity	09/22/2010	39170
OK310810020010_00	Washita River	Enterococcus	09/22/2010	39171
OK310810020010_00	Washita River	Turbidity	09/22/2010	39171
OK310810020020_00	Finn Creek	Enterococcus	09/20/2012	42423
OK310810020170_00	Roaring Creek	Enterococcus	09/21/2007	33279
OK310810020170_00	Roaring Creek	Escherichia coli	09/21/2007	33279
OK310810020200_00	Laflin Creek	Enterococcus	09/21/2007	33280
OK310810020200_00	Laflin Creek	Escherichia coli	09/21/2007	33280

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK310810030010_00	Wildhorse Creek	Enterococcus	09/20/2012	42425
OK310810030080_00	Salt Creek	Enterococcus	09/20/2012	42424
OK310810040140_00	Wildhorse Creek	Enterococcus	09/22/2010	39172
OK310810040140_00	Wildhorse Creek	Escherichia coli	09/22/2010	39172
OK310810040140_00	Wildhorse Creek	Turbidity	09/22/2010	39172
OK310820010030_00	Bitter Creek	Enterococcus	09/21/2007	33281
OK310820010030_00	Bitter Creek	Escherichia coli	09/21/2007	33281
OK310820020010_00	Little Washita River	Enterococcus	09/20/2012	42414
OK310830010010_00	Washita River	Enterococcus	09/21/2007	33282
OK310830010010_00	Washita River	Turbidity	09/22/2010	39173
OK310830020020_00	Stinking Creek	Enterococcus	09/22/2010	39174
OK310830020020_00	Stinking Creek	Escherichia coli	09/22/2010	39174
OK310830020020_00	Stinking Creek	Turbidity	09/22/2010	39174
OK310830020060_10	Rainy Mountain Creek	Turbidity	09/22/2010	39175
OK310830030010_00	Washita River	Enterococcus	09/21/2007	33283
OK310830030010_00	Washita River	Escherichia coli	09/21/2007	33283
OK310830030010_00	Washita River	Turbidity	09/22/2010	39176
OK310830030100_00	Boggy Creek	Enterococcus	09/20/2012	42417
OK310830030100_00	Boggy Creek	Escherichia coli	09/20/2012	42417
OK310830030210_00	Barnitz Creek, East	Enterococcus	09/20/2012	42416
OK310830030230_00	Barnitz Creek, West	Enterococcus	09/20/2012	42418
OK310830040010_00	Spring Creek	Enterococcus	09/20/2012	42422
OK310830040010_00	Spring Creek	Escherichia coli	09/20/2012	42422
OK310830060020_00	Fort Cobb Lake	Chlorophyll-a	07/26/2006	23066
OK310830060020_00	Fort Cobb Lake	Phosphorus (Total)	07/26/2006	23066
OK310830060030_00	Willow Creek	Enterococcus	09/21/2007	33285
OK310830060030_00	Willow Creek	Escherichia coli	09/21/2007	33285
OK310830060050_00	Cobb Creek	Enterococcus	09/20/2012	42419
OK310830060050_00	Cobb Creek	Escherichia coli	09/20/2012	42419

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK310830060080_00	Fivemile Creek	Enterococcus	09/20/2012	42420
OK310830060080_00	Fivemile Creek	Escherichia coli	09/20/2012	42420
OK310840010010_00	Washita River	Enterococcus	09/21/2007	33286
OK310840010010_00	Washita River	Escherichia coli	09/21/2007	33286
OK310840010010_00	Washita River	Turbidity	09/22/2010	39177
OK310840010060_00	Quartermaster Creek	Enterococcus	09/21/2007	33278
OK310840010060_00	Quartermaster Creek	Escherichia coli	09/21/2007	33278
OK310840020010_00	Washita River	Turbidity	09/22/2010	39178
OK310840020020_00	Sandstone Creek	Enterococcus	09/22/2010	39180
OK310840020020_00	Sandstone Creek	Escherichia coli	09/22/2010	39180
OK310840020020_00	Sandstone Creek	Turbidity	09/22/2010	39180
OK311100010190_00	Red River	Turbidity	09/20/2012	42452
OK311100010190_20	Red River	Enterococcus	09/20/2012	42448
OK311100010190_20	Red River	Turbidity	09/20/2012	42448
OK311100010290_00	Red Creek	Enterococcus	09/22/2010	39183
OK311100010290_00	Red Creek	Escherichia coli	09/22/2010	39183
OK311100010290_00	Red Creek	Turbidity	09/22/2010	39183
OK311100010300_00	Fleetwood Creek	Turbidity	09/22/2010	39184
OK311100040010_00	Mud Creek	Enterococcus	09/21/2007	33287
OK311100040010_00	Mud Creek	Turbidity	09/22/2010	39186
OK311100040080_00	Mud Creek, Lower West	Enterococcus	09/21/2007	33288
OK311100040080_00	Mud Creek, Lower West	Escherichia coli	09/21/2007	33288
OK311100040080_00	Mud Creek, Lower West	Turbidity	09/22/2010	39187
OK311200000010_00	Red River	Enterococcus	09/20/2012	42449
OK311200000010_00	Red River	Turbidity	09/20/2012	42449
OK311200000030_00	Beaver Creek	Enterococcus	09/22/2010	39188
OK311200000030_00	Beaver Creek	Turbidity	09/22/2010	39188
OK311200000060_00	Cow Creek	Enterococcus	09/21/2007	33289
OK311200000060_00	Cow Creek	Escherichia coli	09/21/2007	33289

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK311200000060_00	Cow Creek	Turbidity	09/22/2010	39189
OK311200000080_00	Dry Creek	Turbidity	09/22/2010	39190
OK311210000050_00	Little Beaver Creek	Enterococcus	09/20/2012	42444
OK311210000050_00	Little Beaver Creek	Escherichia coli	09/20/2012	42444
OK311210000050_00	Little Beaver Creek	Turbidity	09/20/2012	42444
OK311210000140_00	Whisky Creek	Enterococcus	09/21/2007	33290
OK311210000140_00	Whisky Creek	Escherichia coli	09/21/2007	33290
OK311210000150_00	Cottonwood Creek	Enterococcus	09/21/2007	33291
OK311210000150_00	Cottonwood Creek	Escherichia coli	09/21/2007	33291
OK311300010020_00	Cache Creek, East	Enterococcus	09/21/2007	33292
OK311300010020_00	Cache Creek, East	Escherichia coli	09/21/2007	33292
OK311300010020_00	Cache Creek, East	Turbidity	09/22/2010	39191
OK311300010020_10	Cache Creek, East	Enterococcus	09/21/2007	33292
OK311300010020_10	Cache Creek, East	Turbidity	09/22/2010	39192
OK311300030070_00	Tahoe Creek	Escherichia coli	09/21/2007	33293
OK311310010010_00	Red River	Enterococcus	09/21/2007	33294
OK311310010070_00	Suttle Creek	Turbidity	09/22/2010	39193
OK311310020010_00	Cache Creek, West	Enterococcus	09/21/2007	33295
OK311310020010_00	Cache Creek, West	Escherichia coli	09/21/2007	33295
OK311310020010_00	Cache Creek, West	Turbidity	09/22/2010	39194
OK311310030010_00	Deep Red Creek	Enterococcus	09/22/2010	39195
OK311310030010_00	Deep Red Creek	Escherichia coli	09/22/2010	39195
OK311310030010_00	Deep Red Creek	Turbidity	09/22/2010	39195
OK311310030040_00	Little Deep Red Creek	Turbidity	09/22/2010	39196
OK311310030050_00	Brush Creek	Enterococcus	09/21/2007	33296
OK311310030050_00	Brush Creek	Escherichia coli	09/21/2007	33296
OK311310030050_00	Brush Creek	Turbidity	07/28/2008	39198
OK311500010020_10	Red River, North Fork	Enterococcus	07/28/2008	34831
OK311500010020_10	Red River, North Fork	Turbidity	09/22/2010	39199

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK311500010050_00	Stinking Creek	Enterococcus	07/28/2008	34850
OK311500010050_00	Stinking Creek	Escherichia coli	07/28/2008	34850
OK311500010050_00	Stinking Creek	Turbidity	09/22/2010	39200
OK311500010080_00	Otter Creek	Enterococcus	09/22/2010	39201
OK311500010080_00	Otter Creek	Escherichia coli	09/22/2010	39201
OK311500010080_00	Otter Creek	Turbidity	09/22/2010	39201
OK311500010110_00	Tepee Creek	Enterococcus	07/28/2008	34832
OK311500010110_00	Tepee Creek	Escherichia coli	07/28/2008	34832
OK311500020040_00	Otter Creek, West	Enterococcus	07/28/2008	34833
OK311500020040_00	Otter Creek, West	Escherichia coli	07/28/2008	34833
OK311500020060_00	Tom Steed Lake	Chlorophyll-a	09/30/2011	41064
OK311500030010_00	Elk Creek	Enterococcus	07/28/2008	34834
OK311500030010_00	Elk Creek	Escherichia coli	07/28/2008	34834
OK311500030010_00	Elk Creek	Turbidity	09/22/2010	39202
OK311500030060_00	Rocky Lake	Chlorophyll-a	09/30/2011	41063
OK311510010010_10	Red River, North Fork	Enterococcus	07/28/2008	34836
OK311510010010_10	Red River, North Fork	Turbidity	09/22/2010	39203
OK311510010040_00	Lake Creek	Enterococcus	09/20/2012	42451
OK311510010040_00	Lake Creek	Escherichia coli	09/20/2012	42451
OK311510010090_00	Timber Creek	Enterococcus	09/20/2012	42447
OK311510010090_00	Timber Creek	Escherichia coli	09/20/2012	42447
OK311510010090_00	Timber Creek	Turbidity	09/20/2012	42447
OK311510020060_00	Turkey Creek	Enterococcus	07/28/2008	34837
OK311510020090_00	Buffalo Creek	Enterococcus	09/20/2012	42428
OK311510020090_00	Buffalo Creek	Escherichia coli	09/20/2012	42428
OK311510020120_00	Sweetwater Creek	Enterococcus	09/22/2010	39204
OK311510020120_00	Sweetwater Creek	Escherichia coli	09/22/2010	39204
OK311510020120_00	Sweetwater Creek	Turbidity	09/22/2010	39204
OK311600010020_00	Gypsum Creek	Enterococcus	09/22/2010	39205

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK311600010020_00	Gypsum Creek	Turbidity	09/22/2010	39205
OK311600010040_00	Sandy Creek (Lebos)	Enterococcus	07/28/2008	34838
OK311600010040_00	Sandy Creek (Lebos)	Turbidity	09/22/2010	39206
OK311600020010_00	Red River, Salt Fork	Enterococcus	07/28/2008	34839
OK311600020010_00	Red River, Salt Fork	Escherichia coli	07/28/2008	34839
OK311600020010_10	Red River, Salt Fork	Enterococcus	07/28/2008	34840
OK311600020060_00	Turkey Creek	Enterococcus	09/20/2012	42446
OK311600020060_00	Turkey Creek	Escherichia coli	09/20/2012	42446
OK311600020060_00	Turkey Creek	Turbidity	09/20/2012	42446
OK311600020110_05	Bitter Creek	Enterococcus	07/28/2008	34841
OK311600020110_05	Bitter Creek	Turbidity	09/20/2012	42445
OK311600020140_00	Cave Creek	Enterococcus	07/28/2008	34842
OK311600020140_00	Cave Creek	Escherichia coli	07/28/2008	34842
OK311800000010_00	Red River, Elm Fork	Enterococcus	07/28/2008	34843
OK311800000010_00	Red River, Elm Fork	Escherichia coli	07/28/2008	34843
OK311800000040_00	Haystack Creek	Enterococcus	09/22/2010	39207
OK311800000040_00	Haystack Creek	Escherichia coli	09/22/2010	39207
OK311800000040_00	Haystack Creek	Turbidity	09/22/2010	39207
OK311800000060_00	Station Creek	Enterococcus	09/20/2012	42450
OK311800000070_00	Deer Creek	Enterococcus	07/28/2008	34844
OK311800000070_00	Deer Creek	Escherichia coli	07/28/2008	34844
OK311800000070_00	Deer Creek	Turbidity	09/22/2010	39208
OK311800000130_00	Fish Creek	Enterococcus	07/28/2008	34845
OK410210020140_00	Little River	Enterococcus	09/21/2007	33303
OK410210040010_00	Little River, Mountain Fork	Enterococcus	09/21/2007	33304
OK410210040010_10	Little River, Mountain Fork	Enterococcus	09/21/2007	33305
OK410210080010_00	Glover River	Enterococcus	09/21/2007	33306
OK410300030010_10	Kiamichi River	Enterococcus	09/21/2007	33307
OK410300030270_00	Tenmile Creek	Enterococcus	09/21/2007	33309

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK410400010010_20	Red River	Enterococcus	09/21/2007	33297
OK410400010070_00	Muddy Boggy Creek	Enterococcus	09/21/2007	33298
OK410400010070_00	Muddy Boggy Creek	Turbidity	09/20/2012	42476
OK410400010130_00	Lick Creek	Turbidity	09/20/2012	42479
OK410400010210_00	Whitegrass Creek	Turbidity	09/20/2012	42481
OK410400030010_00	Clear Boggy Creek	Enterococcus	09/21/2007	33299
OK410400030010_00	Clear Boggy Creek	Turbidity	09/20/2012	42468
OK410400030370_00	Leader Creek	Turbidity	09/20/2012	42474
OK410400030490_00	Goose Creek	Turbidity	09/20/2012	42470
OK410400050270_10	Muddy Boggy Creek	Enterococcus	09/21/2007	33300
OK410400050270_10	Muddy Boggy Creek	Enterococcus	09/20/2012	42455
OK410400050270_10	Muddy Boggy Creek	Turbidity	09/20/2012	42455
OK410400060120_00	Caney Boggy Creek	Turbidity	09/20/2012	42458
OK410600010010_00	Blue River	Enterococcus	09/21/2007	33301
OK410600010030_00	Sulphur Creek	Turbidity	09/22/2010	39181
OK520500010110_10	Canadian River, North	Enterococcus	08/16/2011	40589
OK520500010110_10	Canadian River, North	Turbidity	08/16/2011	40589
OK520500010170_00	Bad Creek	Enterococcus	08/16/2011	40591
OK520500020010_00	Wewoka Creek	Enterococcus	08/16/2011	40592
OK520500020010_00	Wewoka Creek	Turbidity	08/16/2011	40592
OK520510000010_00	Canadian River, North	Enterococcus	08/16/2011	40595
OK520510000010_00	Canadian River, North	Turbidity	08/16/2011	40595
OK520510000110_00	Canadian River, North	Enterococcus	08/16/2011	40590
OK520510000110_00	Canadian River, North	Turbidity	08/16/2011	40590
OK520510000110_20	Canadian River, North	Enterococcus	06/29/2010	38886
OK520520000010_00	Canadian River, North	Enterococcus	06/29/2010	38869
OK520520000010_10	Canadian River, North	Enterococcus	06/29/2010	38885
OK520520000010_20	Canadian River, North	Enterococcus	06/29/2010	38884
OK520520000010_30	Canadian River, North	Enterococcus	06/29/2010	38883

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK520520000010_30	Canadian River, North	Escherichia coli	06/29/2010	38883
OK520520000010_40	Canadian River, North	Enterococcus	06/29/2010	38882
OK520520000150_00	Crooked Oak Creek	Escherichia coli	06/29/2010	38875
OK520520000210_00	Canadian River, North	Enterococcus	06/29/2010	38881
OK520520000240_00	Mustang Creek	Escherichia coli	06/29/2010	38874
OK520530000010_10	Canadian River, North	Enterococcus	11/06/2007	33888
OK520530000010_10	Canadian River, North	Escherichia coli	11/06/2007	33888
OK520530000030_00	Shell Creek	Enterococcus	11/06/2007	33889
OK520530000030_00	Shell Creek	Escherichia coli	11/06/2007	33889
OK520600010010_00	Canadian River	Enterococcus	10/20/2008	35619
OK520600010060_00	Factory Creek	Escherichia coli	10/28/2008	35615
OK520610010010_05	Canadian River	Enterococcus	10/20/2008	35621
OK520610010080_00	Willow Creek	Escherichia coli	10/20/2008	35617
OK520610020120_00	Buggy Creek	Enterococcus	10/20/2008	35618
OK520610020120_00	Buggy Creek	Escherichia coli	10/20/2008	35618
OK520610020150_10	Canadian River	Enterococcus	10/20/2008	35623
OK520610030080_00	Walnut Creek, North Fork	Enterococcus	09/29/2009	35624
OK520610030080_00	Walnut Creek, North Fork	Escherichia coli	09/29/2009	35624
OK520620010120_00	Bear Creek	Enterococcus	09/29/2006	30710
OK520620010120_00	Bear Creek	Escherichia coli	09/29/2006	30710
OK520620020010_00	Canadian River	Enterococcus	09/29/2006	30714
OK520620020090_00	Trail Creek	Enterococcus	09/29/2006	30717
OK520620020090_00	Trail Creek	Escherichia coli	09/29/2006	30717
OK520620030020_00	Lone Creek	Enterococcus	09/29/2006	30718
OK520620030020_00	Lone Creek	Escherichia coli	09/29/2006	30718
OK520620030050_00	Red Trail Creek	Enterococcus	09/29/2006	30747
OK520620030050_00	Red Trail Creek	Escherichia coli	09/29/2006	30747
OK520620030110_00	Red Creek	Enterococcus	09/29/2006	30757
OK520620030110_00	Red Creek	Escherichia coli	09/29/2006	30757

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK520620040050_00	Hackberry Creek	Enterococcus	09/29/2006	30759
OK520620040050_00	Hackberry Creek	Escherichia coli	09/29/2006	30759
OK520620050160_00	Commission Creek	Enterococcus	09/29/2006	30730
OK520620050160_00	Commission Creek	Escherichia coli	09/29/2006	30730
OK520620060010_00	Deer Creek	Enterococcus	09/29/2006	30723
OK520620060010_00	Deer Creek	Escherichia coli	09/29/2006	30723
OK520700020010_10	Canadian River, Deep Fork	Enterococcus	09/30/2011	41134
OK520700020010_10	Canadian River, Deep Fork	Turbidity	09/30/2011	41134
OK520700030100_00	Salt Creek	Enterococcus	09/30/2011	41065
OK520700030220_00	Camp Creek	Enterococcus	09/30/2011	41066
OK520700040010_00	Canadian River, Deep Fork	Enterococcus	09/30/2011	41069
OK520700040010_00	Canadian River, Deep Fork	Turbidity	09/30/2011	41069
OK520700040020_00	Dry Creek	Enterococcus	09/30/2011	41070
OK520700040020_00	Dry Creek	Escherichia coli	09/30/2011	41070
OK520700040020_00	Dry Creek	Turbidity	09/30/2011	41070
OK520700040260_00	Quapaw Creek	Enterococcus	09/30/2011	41072
OK520700040260_00	Quapaw Creek	Turbidity	09/30/2011	41072
OK520700050020_00	Bellcow Creek	Enterococcus	09/30/2011	41078
OK520700050200_00	Opossum Creek	Turbidity	09/30/2011	41077
OK520700060130_10	Little Deep Fork Creek	Turbidity	09/30/2011	41133
OK520700060140_00	Catfish Creek	Turbidity	09/30/2011	41132
OK520800010010_00	Little River	Enterococcus	10/20/2008	35625
OK620900010170_10	Cimarron River	Enterococcus	09/20/2012	42499
OK620900010170_10	Cimarron River	Turbidity	09/20/2012	42499
OK620900010180_00	Lagoon Creek	Enterococcus	09/20/2012	42501
OK620900010180_00	Lagoon Creek	Escherichia coli	09/20/2012	42501
OK620900010290_00	Euchee Creek	Enterococcus	09/20/2012	42509
OK620900010290_00	Euchee Creek	Escherichia coli	09/20/2012	42509
OK620900010290_00	Euchee Creek	Turbidity	09/20/2012	42509

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620900010310_00	Cottonwood Creek	Enterococcus	09/20/2012	42504
OK620900010310_00	Cottonwood Creek	Escherichia coli	09/20/2012	42504
OK620900020020_00	Salt Creek	Enterococcus	09/20/2012	42512
OK620900020020_00	Salt Creek	Escherichia coli	09/20/2012	42512
OK620900020050_00	Council Creek	Enterococcus	09/20/2012	42511
OK620900020050_00	Council Creek	Escherichia coli	09/20/2012	42511
OK620900020050_00	Council Creek	Turbidity	09/20/2012	42511
OK620900030010_00	Cimarron River	Enterococcus	09/20/2012	42492
OK620900030010_00	Cimarron River	Turbidity	09/20/2012	42492
OK620900030080_00	Dugout Creek	Enterococcus	09/20/2012	42513
OK620900030080_00	Dugout Creek	Escherichia coli	09/20/2012	42513
OK620900030230_00	Beaver Creek	Enterococcus	09/20/2012	42502
OK620900030230_00	Beaver Creek	Escherichia coli	09/20/2012	42502
OK620900030230_00	Beaver Creek	Turbidity	09/20/2012	42502
OK620900030260_00	Beaver Creek, West	Turbidity	09/20/2012	42505
OK620900040040_00	Stillwater Creek	Enterococcus	09/20/2012	42510
OK620900040040_00	Stillwater Creek	Escherichia coli	09/20/2012	42510
OK620900040040_00	Stillwater Creek	Turbidity	09/20/2012	42510
OK620910010010_00	Cimarron River	Enterococcus	09/29/2009	37386
OK620910020010_00	Cimarron River	Enterococcus	08/26/2011	40623
OK620910020010_00	Cimarron River	Escherichia coli	08/26/2011	40623
OK620910020010_00	Cimarron River	Turbidity	08/26/2011	40623
OK620910020010_10	Cimarron River	Enterococcus	08/26/2011	40622
OK620910020010_10	Cimarron River	Escherichia coli	08/26/2011	40622
OK620910020040_00	Cooper Creek	Enterococcus	09/29/2009	37387
OK620910020040_00	Cooper Creek	Escherichia coli	09/29/2009	37387
OK620910020040_00	Cooper Creek	Turbidity	05/28/2010	38650
OK620910020250_00	Deep Creek	Enterococcus	09/29/2009	37396
OK620910020250_00	Deep Creek	Escherichia coli	09/29/2009	37396

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620910020270_00	Elm Creek	Enterococcus	09/29/2009	37398
OK620910020270_00	Elm Creek	Escherichia coli	09/29/2009	37398
OK620910020270_00	Elm Creek	Turbidity	05/28/2010	38651
OK620910020310_00	Indian Creek	Enterococcus	09/29/2009	37399
OK620910020310_00	Indian Creek	Escherichia coli	09/29/2009	37399
OK620910030010_00	Skeleton Creek	Enterococcus	09/29/2009	37402
OK620910030010_00	Skeleton Creek	Escherichia coli	09/29/2009	37402
OK620910030010_00	Skeleton Creek	Turbidity	05/28/2010	38652
OK620910030040_00	Otter Creek	Enterococcus	09/20/2012	42583
OK620910030040_00	Otter Creek	Escherichia coli	09/20/2012	42583
OK620910040010_20	Cottonwood Creek	Enterococcus	09/29/2009	37407
OK620910040010_20	Cottonwood Creek	Escherichia coli	09/29/2009	37407
OK620910040010_20	Cottonwood Creek	Turbidity	05/28/2010	38653
OK620910040060_00	Guthrie Lake	Chlorophyll-a	05/18/2012	41750
OK620910040080_00	Liberty Lake	Chlorophyll-a	05/18/2012	41751
OK620910040120_00	Deer Creek	Enterococcus	09/29/2009	37408
OK620910040120_00	Deer Creek	Escherichia coli	09/29/2009	37408
OK620910040120_00	Deer Creek	Turbidity	05/28/2010	38654
OK620910040140_00	Bluff Creek	Enterococcus	09/20/2012	42517
OK620910050010_00	Kingfisher Creek	Enterococcus	09/29/2009	37410
OK620910050010_00	Kingfisher Creek	Escherichia coli	09/29/2009	37410
OK620910050010_00	Kingfisher Creek	Turbidity	05/28/2010	38655
OK620910050020_00	Trail Creek	Enterococcus	09/29/2009	37412
OK620910050020_00	Trail Creek	Escherichia coli	09/29/2009	37412
OK620910050030_00	Uncle Johns Creek	Enterococcus	09/29/2009	37413
OK620910050030_00	Uncle Johns Creek	Escherichia coli	09/29/2009	37413
OK620910050080_00	Winter Camp Creek	Enterococcus	09/29/2009	37414
OK620910050080_00	Winter Camp Creek	Escherichia coli	09/29/2009	37414
OK620910050080_00	Winter Camp Creek	Turbidity	05/28/2010	38656

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620910060010_00	Turkey Creek	Enterococcus	09/29/2006	30704
OK620910060010_00	Turkey Creek	Turbidity	09/29/2006	30704
OK620910060020_00	Little Turkey Creek	Enterococcus	09/29/2006	30706
OK620910060020_00	Little Turkey Creek	Turbidity	09/29/2006	30706
OK620910060030_00	Buffalo Creek	Turbidity	09/29/2006	30707
OK620920010010_00	Cimarron River	Enterococcus	08/26/2011	40624
OK620920010010_00	Cimarron River	Escherichia coli	08/26/2011	40624
OK620920010010_00	Cimarron River	Turbidity	08/26/2011	40624
OK620920010080_00	Cottonwood Creek	Turbidity	08/26/2011	40618
OK620920010130_00	Griever Creek	Enterococcus	08/26/2011	40621
OK620920010180_00	Main Creek	Enterococcus	08/26/2011	40617
OK620920010180_00	Main Creek	Escherichia coli	08/26/2011	40617
OK620920010180_00	Main Creek	Turbidity	08/26/2011	40617
OK620920020010_00	Cimarron River	Escherichia coli	08/26/2011	40615
OK620920020080_00	Long Creek	Enterococcus	08/26/2011	40616
OK620920020080_00	Long Creek	Escherichia coli	08/26/2011	40616
OK620920030010_00	Cimarron River	Enterococcus	08/26/2011	40609
OK620920030010_00	Cimarron River	Escherichia coli	08/26/2011	40609
OK620920040010_00	Eagle Chief Creek	Enterococcus	08/26/2011	40625
OK620920040010_00	Eagle Chief Creek	Escherichia coli	08/26/2011	40625
OK620920040010_00	Eagle Chief Creek	Turbidity	08/26/2011	40625
OK620920050010_00	Buffalo Creek	Enterococcus	08/26/2011	40612
OK620920050010_00	Buffalo Creek	Escherichia coli	08/26/2011	40612
OK620920050050_00	Sand Creek	Enterococcus	08/26/2011	40614
OK620920050050_00	Sand Creek	Escherichia coli	08/26/2011	40614
OK620930000010_00	Cimarron River	Enterococcus	08/16/2011	40587
OK620930000100_00	Crooked Creek	Enterococcus	08/16/2011	40588
OK621000010010_30	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41080
OK621000010010_30	Arkansas River, Salt Fork	Turbidity	09/30/2011	41080

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK621000030010_00	Bois D' Arc Creek	Enterococcus	09/30/2011	41129
OK621000030010_00	Bois D' Arc Creek	Escherichia coli	09/30/2011	41129
OK621000030010_00	Bois D' Arc Creek	Turbidity	09/30/2011	41129
OK621000040010_00	Deer Creek	Enterococcus	09/30/2011	41084
OK621000040010_00	Deer Creek	Escherichia coli	09/30/2011	41084
OK621000040010_00	Deer Creek	Turbidity	09/30/2011	41084
OK621000050010_00	Pond Creek	Enterococcus	09/30/2011	41115
OK621000050010_00	Pond Creek	Escherichia coli	09/30/2011	41115
OK621000050010_00	Pond Creek	Turbidity	09/30/2011	41115
OK621000060010_00	Crooked Creek	Enterococcus	09/30/2011	41116
OK621000060010_00	Crooked Creek	Turbidity	09/30/2011	41116
OK621010010010_00	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41121
OK621010010010_00	Arkansas River, Salt Fork	Turbidity	09/30/2011	41121
OK621010010090_00	Clay Creek	Enterococcus	09/30/2011	41125
OK621010010160_00	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41122
OK621010010160_00	Arkansas River, Salt Fork	Escherichia coli	09/30/2011	41122
OK621010010160_00	Arkansas River, Salt Fork	Turbidity	09/30/2011	41122
OK621010010230_00	Turkey Creek	Enterococcus	09/30/2011	41098
OK621010010230_00	Turkey Creek	Escherichia coli	09/30/2011	41098
OK621010010230_00	Turkey Creek	Turbidity	09/30/2011	41098
OK621010010270_00	Yellowstone Creek	Enterococcus	09/30/2011	41123
OK621010020010_00	Sandy Creek	Enterococcus	09/30/2011	41124
OK621010020010_00	Sandy Creek	Escherichia coli	09/30/2011	41124
OK621010030010_00	Medicine Lodge River	Enterococcus	09/30/2011	41119
OK621010030010_00	Medicine Lodge River	Escherichia coli	09/30/2011	41119
OK621010030010_00	Medicine Lodge River	Turbidity	09/30/2011	41119
OK621010030030_00	Driftwood Creek	Enterococcus	09/30/2011	41117
OK621010030030_00	Driftwood Creek	Escherichia coli	09/30/2011	41117
OK621010030030_00	Driftwood Creek	Turbidity	09/30/2011	41117

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK621100000010_00	Chikaskia River	Enterococcus	09/30/2011	41088
OK621100000010_00	Chikaskia River	Escherichia coli	09/30/2011	41088
OK621100000010_00	Chikaskia River	Turbidity	09/30/2011	41088
OK621100000010_10	Chikaskia River	Enterococcus	09/30/2011	41128
OK621100000010_10	Chikaskia River	Turbidity	09/30/2011	41128
OK621100000100_00	Bitter Creek	Enterococcus	09/30/2011	41086
OK621100000100_00	Bitter Creek	Escherichia coli	09/30/2011	41086
OK621100000100_00	Bitter Creek	Turbidity	09/30/2011	41086
OK621200010200_00	Arkansas River	Enterococcus	09/30/2011	41096
OK621200010200_00	Arkansas River	Turbidity	09/30/2011	41096
OK621200010400_00	Gray Horse Creek	Enterococcus	09/15/2009	37062
OK621200010400_00	Gray Horse Creek	Escherichia coli	09/15/2009	37062
OK621200010400_00	Gray Horse Creek	Turbidity	05/10/2010	38646
OK621200020020_00	Doga Creek	Enterococcus	09/15/2009	37063
OK621200020020_00	Doga Creek	Escherichia coli	09/15/2009	37063
OK621200020020_00	Doga Creek	Turbidity	05/10/2010	38647
OK621200030010_00	Black Bear Creek	Enterococcus	09/30/2011	41131
OK621200030010_00	Black Bear Creek	Escherichia coli	09/30/2011	41131
OK621200030010_00	Black Bear Creek	Turbidity	09/22/2010	39182
OK621200040010_00	Salt Creek	Enterococcus	09/15/2009	37061
OK621200040010_00	Salt Creek	Turbidity	05/10/2010	38645
OK621200040010_10	Salt Creek	Enterococcus	09/15/2009	37059
OK621200040010_10	Salt Creek	Escherichia coli	09/15/2009	37059
OK621200050010_00	Red Rock Creek	Enterococcus	09/30/2011	41108
OK621200050010_00	Red Rock Creek	Escherichia coli	09/30/2011	41108
OK621200050010_00	Red Rock Creek	Turbidity	09/30/2011	41108
OK621200050010_10	Red Rock Creek	Escherichia coli	09/30/2011	41113
OK621200050010_10	Red Rock Creek	Turbidity	09/30/2011	41113
OK621210000050_10	Beaver Creek	Enterococcus	09/30/2011	41090

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK621210000050_10	Beaver Creek	Escherichia coli	09/30/2011	41090
OK621210000270_00	Chilocco Creek	Enterococcus	09/30/2011	41089
OK621210000270_00	Chilocco Creek	Escherichia coli	09/30/2011	41089
OK621210000270_00	Chilocco Creek	Turbidity	09/30/2011	41089
OK720500020010_00	Beaver River	Enterococcus	09/28/2010	39225
OK720500020030_00	Wolf Creek	Turbidity	09/23/2010	39240
OK720500020050_00	Otter Creek	Enterococcus	09/28/2010	39234
OK720500020050_00	Otter Creek	Escherichia coli	09/28/2010	39234
OK720500020070_00	Clear Creek	Enterococcus	09/28/2010	39227
OK720500020070_00	Clear Creek	Escherichia coli	09/28/2010	39227
OK720500020100_00	Spring Creek	Enterococcus	09/28/2010	39237
OK720500020100_00	Spring Creek	Escherichia coli	09/28/2010	39237
OK720500020130_00	Kiowa Creek	Enterococcus	09/28/2010	39233
OK720500020140_00	Beaver River	Enterococcus	09/28/2010	39224
OK720500020250_00	Duck Pond Creek	Enterococcus	09/28/2010	39229
OK720500020250_00	Duck Pond Creek	Escherichia coli	09/28/2010	39229
OK720500020290_00	Beaver River	Enterococcus	09/28/2010	39223
OK720500020290_00	Beaver River	Escherichia coli	09/28/2010	39223
OK720500020300_00	Clear Creek	Enterococcus	09/28/2010	39226
OK720500020450_00	Beaver River	Enterococcus	09/28/2010	39222
OK720500020450_00	Beaver River	Escherichia coli	09/28/2010	39222
OK720500020500_00	Palo Duro Creek	Turbidity	09/28/2010	39236
OK720500020500_10	Palo Duro Creek	Enterococcus	09/28/2010	39235
OK720500030010_00	Wolf Creek	Enterococcus	09/28/2010	39238
OK720510000190_00	Beaver River	Enterococcus	09/28/2010	39221
OK720510000190_00	Beaver River	Escherichia coli	09/28/2010	39221
OK720900000180_00	Cimarron River	Enterococcus	08/16/2011	40586

Appendix F

Implementation of a Probabilistic Stream/River Monitoring Sampling network for the State of Oklahoma

Provided by

Oklahoma Water Resources Board

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IMPLEMENTATION OF A PROBABILISTIC STREAM/RIVER MONITORING SAMPLING NETWORK FOR THE STATE OF OKLAHOMA

Introduction

It is the intent of this Oklahoma Water Resources Board (OWRB) report to advance concepts and principles of the Oklahoma Comprehensive Water Plan (OCWP). Consistent with the OCWP data needs, this and other OWRB technical studies provide invaluable data crucial to the ongoing management of Oklahoma's water supplies as well as the future use and protection of the state's water resources. Oklahoma's decision-makers rely upon this information to address specific water supply, quality, infrastructure, and related concerns. Maintained by the OWRB and updated every 10 years, the OCWP serves as Oklahoma's official long-term water planning strategy. Recognizing the essential connection between sound science and effective public policy, incorporated in the Water Plan are a broad range of water resource development and protection strategies substantiated by hard data – such as that contained in this report – and supported by Oklahoma citizens.

Several state agencies conduct water quality monitoring in Oklahoma including: (a) the OWRB's Beneficial Use Monitoring Program (a long-term, fixed-station water quality monitoring network), and (b) the Oklahoma Conservation Commission's (OCC) Small-Watershed Rotating Basin Monitoring Program (targeting water quality and ecological conditions in waters flowing from 11-digit hydrologic units). The state recently completed a water quality monitoring strategy that describes the existing monitoring programs in detail and the monitoring objectives that cannot be met with existing resources. These objectives include the ability to make statistically valid inferences about environmental conditions throughout the state, based on a probabilistic selection of sites. Meeting this objective will improve the ability to make condition estimates required in section 305(b) of the Clean Water Act. This requirement includes a description of the quality of all lotic waters, and the extent that all waters provide for the protection and propagation of aquatic life.

The Environmental Protection Agency (EPA) has released guidance establishing the "10 Required Elements of a State Water Monitoring and Assessment Program" (USEPA, 2005). Among other things, the document states, "a State monitoring program will likely integrate several monitoring designs (e.g., fixed station, intensive and screening-level monitoring, rotating basin, judgmental and probability design) to meet the full range of decision needs. The State monitoring design should include probability-based networks (at the watershed or state-level) that support statistically valid inferences about the condition of all State water types, over time. EPA expects the State to use the most efficient combination of monitoring designs to meet its objectives." Until 2005, Oklahoma had several monitoring programs that met these requirements including the Beneficial Use Monitoring Program (BUMP) and the Rotating Basin Monitoring Program (RBMP) (OWRB, 2009b). Furthermore, the state has developed several programs to intensively monitor areas that have been listed on Oklahoma's 303(d) list of impaired waters (ODEQ, 2008).

In 2001, the State requested assistance with the design of a probabilistic approach to stream and river site selection from the U.S. Environmental Protection Agency, Office of Research and Development (ORD), Western Ecology Division (Olsen, 2001). Funding was provided through a variety of state and federal sources (Table 1). The probability-based survey was designed to assist Oklahoma's water quality managers in several ways. An unequal probability random tessellation stratified (RTS) survey design (Stevens 1997, Stevens and Olsen 2004) was used to select stream sample sites across the state (Olsen, 2001), and was weighted by Strahler stream order categories.

For the study, a total of 284 randomly chosen sites were evaluated for candidacy. The survey was a three-year study (2005-2007) with one hundred twenty-six (126) sites sampled (Table 2).

Table 1. Breakdown of yearly funding and activity funded (OWRB, 2005a).

STUDY YEAR	FEDERAL 104(B)3	REMAP	STATE
SY-2005 (1)	\$130,118— recon and sampling of 30 sites; supplies and equipment	No Funding	\$55,882—the state 5% match to the 104(b)3 (\$6,849); recon and sampling of 12 sites; final reports
SY-2006 (2)	No Funding	\$180,000—recon and sampling of all 42 sites; project and data management activities; supplies and equipment	\$100,000—project and data management
SY-2007 (3)	No Funding	\$140,000—recon and sampling of 32 sites; project and data management; portion of final report	\$54,000—recon and sampling of 10 sites (Upper Arkansas Planning Basin); project and data management; portion of final report
3 year Total (\$660,000)	\$130,118	\$320,000	\$209,882

Table 2. Numbers of sites originally targeted both statewide and within selected basins.

STUDY YEAR (SY)	GEOGRAPHIC SCALE	# SITES SAMPLED
SY-2005 (1)	Lower Red River	27
	Statewide Stations	15
SY-2006 (2)	Grand-Neosho River	15
	Upper North Canadian River	5
	Upper Canadian River	7
	Statewide Stations	15
SY-2007 (3)	Upper Arkansas River	10
	Lower Canadian River	6
	Cimarron River	11
	Statewide Stations	15
SY-2005-7	Total Stations	126

The current assessment allows Oklahoma to make a statistically valid assessment of the condition of all of Oklahoma's streams/rivers, as required under Section 305(b) of the Clean Water Act (CWA) (ODEQ, 2008). This sample size allows for a statewide as well as a regional estimate of fish, macroinvertebrate, and algal condition. Additionally, extent is evaluated for a number of potential environmental stressors at both the statewide and regional level. Lastly, under the guidelines of the Integrated Listing Methodology (ODEQ, 2006), data allow for the assessment of the Fish & Wildlife Propagation beneficial use on more waters of the state. Future work may allow for more comprehensive 303(d) assessments so that the support status of probabilistic sites may be fully vetted. Furthermore, the survey provides information that will allow for better long- and short-range planning and resource allocation. A benefit of probabilistic design is that data results can be applied

in a much broader context. For example, the relationship of condition can be associated with stressor extent through methodologies like relative risk analysis. The current study yields a wealth of biological, chemical, and physical data across a broad gradient of environmental conditions, supporting evaluation of these indicator relationships. Data can be used to calibrate existing biocriteria ranges, establish reference condition, and assist in nutrient criteria development. When integrated with fixed-station networks, it will assist in identifying local areas of concern. Also, although not accomplished by this report, landscape metrics can be associated with stressors and condition to develop predictive models. Third, probabilistic data will assist in efforts to regionalize environmental concerns. A bottom up approach to management identifies not only statewide issues but allows managers to identify local and regional concerns first, which often lead to issues farther down the watershed, and put resources where they are needed. The probabilistic methodology adds a valuable layer to that management approach.

In keeping with the environmental goals of the state as outlined in the OCWP, an effective long-term management strategy based on sound science and defensible data can be developed using this data. The four over-arching goals of the study were:

1. Estimate the condition of various measures of biological integrity for Oklahoma's waters through a statistically-valid approach.
2. Estimate the extent of stressors that may be associated with biological condition.
3. Evaluate the relationship between stressors and condition for use in various long and short term environmental management strategies.
4. Assess waters for inclusion in Oklahoma's Integrated Water Quality Report.

Study Design

The study was multi-faceted in that estimates were generated at both a statewide level and in three sub-state ecoregional groupings. To create the sub-state areas, Omernik Level III ecoregions were grouped based upon proximity. Several considerations were given when making these groupings. Foremost, water quality should be similar and habitat should not be greatly divergent. Secondly, groupings should be supported by some previously published sources such as Omernik Level II ecoregions. The final regional groupings are presented in Figure 1. They include the Western Plains/Tablelands, Temperate Forests, and Forested Plains/Flint Hills.



Figure 1 . Ecoregion groupings used for regional assessment of sites.

The study was spatially, temporally and hydrologically limited. Spatially, the study excluded all flowing waterbodies receiving major hydrological influence from oxbow lakes because of a lack of developed biological collection protocols. In southeastern Oklahoma, the lower Red River below its confluence with the Kiamichi River and the Little River below its confluence with the Mountain Fork River were excluded. In northeastern and east-central Oklahoma, the McClellan-Kerr Navigational System was excluded below its confluence with the Caney River, encompassing large portions of the lower Verdigris River and Arkansas River as they flow through the state. Temporal limitations were defined by biological index periods. The index period for the fish assemblage in Oklahoma was May 15th through September 15th with an optional extension to October 1st if the stream had not risen above summer seasonal base flow (OWRB, 2004). The index habitat period for the macroinvertebrate assemblage in Oklahoma was June 1st through August 30th with collections completed in as short a time period as possible (OWRB, 2006c). Hydrologically, the study was limited by both an extended drought in SY-2005 as well as excessive rains and flooding in SY-2006-2007. This impeded study progress in several ways. Sites originally verified as target sites were removed and an oversample site visited because of site changes between the period of reconnaissance and sampling. Additionally, several sites had partial collections because conditions changed between the period of macroinvertebrate/water sampling and fish sampling, or vice-versa. To assess ecological and human health, one-time collections were made for a variety of biological, chemical, and physical parameters. All target sites were visited once during a late spring to late summer index period. Variables outlined in Table 4 were collected at each site.

Table 3. Water quality variables included in study.

SAMPLE VARIABLES		
<i>In situ</i> Variables		
Dissolved Oxygen (D. O.)	% D. O. Saturation	PH
Water Temperature	Specific Conductance	
Field Variables		
Nephelometric Turbidity	Total Alkalinity	Total Hardness
Instantaneous Flow	Stage	
Laboratory Variables--General Chemistry		
Total Kjeldahl Nitrogen	Ortho-Phosphorus	Total Phosphorus
*Nitrate Nitrogen	*Nitrite Nitrogen	Ammonia Nitrogen
Total Dissolved Solids—gravimetric	Chlorides	Sulfates
Total Settleable Solids	Total Suspended Solids	
Laboratory Variables—Metals		
Arsenic	Cadmium	Chromium
Copper	Lead	Mercury
Nickel	Selenium	Silver
Zinc	Thallium	Calcium
Barium	Iron	Magnesium
Potassium	Sodium	
Laboratory Variables—Microbiological		
Fecal Coliform	<i>Escherichia coli</i>	Enterococci
Biological Variables		
Fish	Macroinvertebrates	Sestonic Chlorophyll-a
Habitat--Long Form	Habitat--Short Form	Benthic Chlorophyll-a

Data Analysis

For data analysis, sites were grouped statewide as well as by Omernik Level III ecoregions based upon proximity to produce estimates. A total of 284 randomly chosen sites were evaluated for candidacy representing a total of 34,379 stream miles. Using pie charts, results are illustrated for statewide and regional extent in Figure 2. Stream miles determined to be target, or sampleable, totaled 14,284 miles statewide (42%, +/- 6%). Regionally, the total stream miles assessed break out as follows: 4,846 of 10,544 total miles in the Forested Plains (46%, +/-12%), 4,411 of 10,569 total miles in the Temperate Forests (42%, +/-9%), and 5,027 of 13,276 total miles in the Western Plains (38%, +/-9%). Stream miles that did not meet the target criteria were divided into two categories—non-sampleable and no access. The non-sampleable stream length totaled 6,556 miles (19% +/- 11%) and were divided into four sub-categories—dry channel (4,308 miles), impounded (1,026 miles), temporary/persistent flooding conditions (1,103 miles), and wetland (and 119 miles). Stream length with no access equaled 13,540 miles (39%, +/-7%), which was nearly equivalent to the totaled sampled length. Reasons for lack of access varied but can be divided into three general sub-categories—access permission denied (13,169 miles), physical barrier to access (231 miles), and no existing protocols (140 miles). The last category was for extremely large rivers (e.g., the Arkansas River portion of the McClellan-Kerr Navigational System) where attempting to apply rapid bioassessment protocols was neither feasible nor practical.

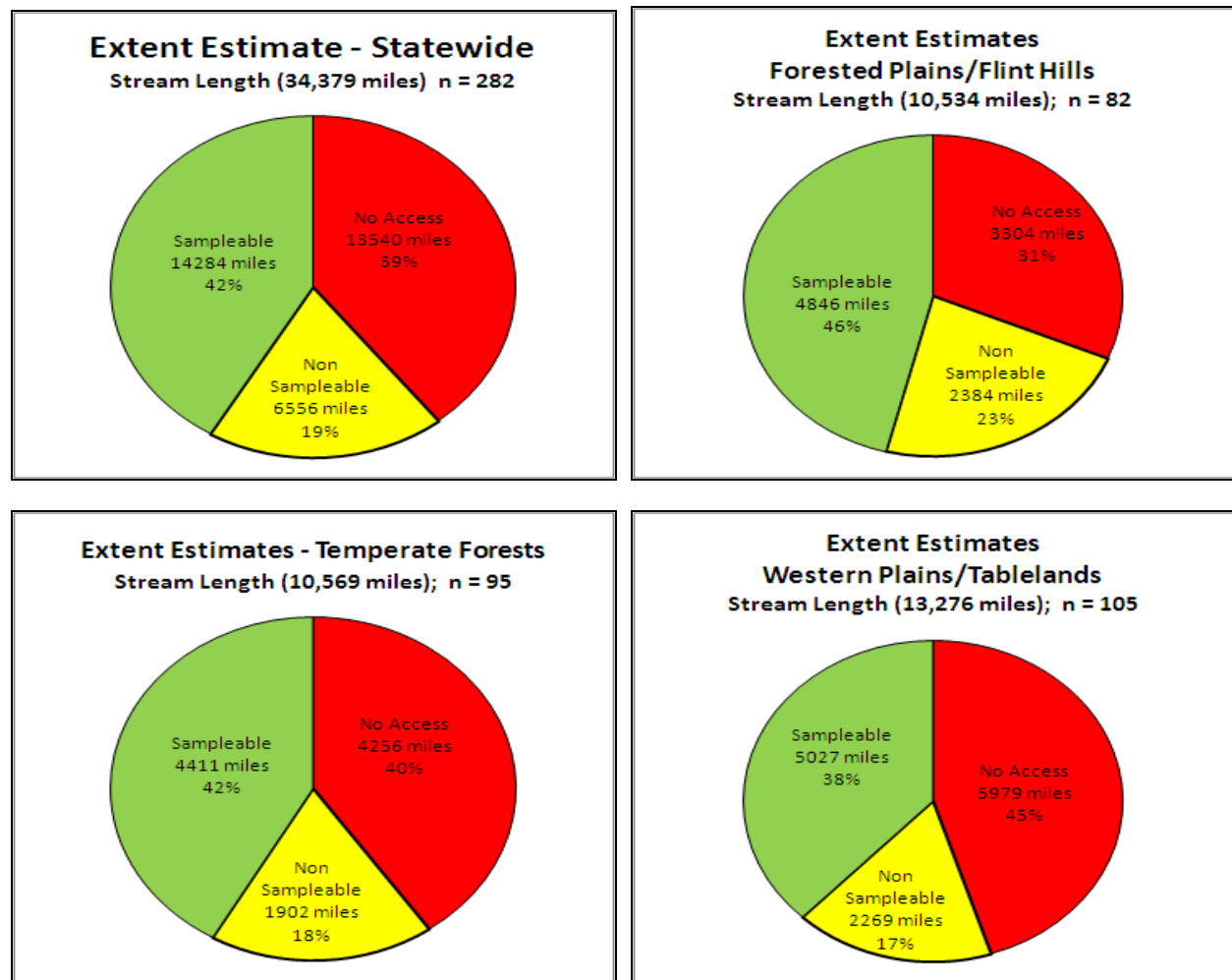


Figure 2. Statewide extent estimates representing considered and sampled stream miles.

Fish data were analyzed using two indices of biological integrity (IBI) commonly used in Oklahoma bioassessment studies—the OKFIBI and the OCCFIBI. Oklahoma's biocriteria methodology (OKFIBI) uses a common set of metrics throughout the state (Table 5). Each metric is scored a 5, 3, or 1 depending on the calculated value, and scores are summed to reach two subcategory totals for sample composition and fish condition (OWRB, 2008b). The two subcategories are then summed for a final IBI score. The score is compared to ecoregion biocriteria to determine support status. The OCCFIBI uses "a modified version of Karr's Index of Biotic Integrity (IBI) as adapted from Plafkin et al., 1989" (OCC, 2008). Metric scores are calculated in two ways for both the test site and composite reference metric values of high-quality streams in the ecoregion (OCC 2005). The OKFIBI estimated that nearly half of the state has a supporting fish condition over 47% (+/-8%) of the target population, 7% of the population is not supporting, while 28% are undetermined (Figure 3). An additional 16% of the population is lacking adequate biocriteria to determine condition. Conversely, the OCCFIBI estimates an excellent/good condition for 54% (+/- 8%) of the population, while 16% is in poor/very poor and 27% in fair condition (Figure 4).

Macroinvertebrate data were analyzed using a Benthic-IBI (B-IBI) developed for Oklahoma benthic communities (OCC, 2005a) and commonly used by the OCC and OWRB Water Quality Divisions (OCC, 2008; OWRB, 2009a). The metrics and scoring criteria are taken from the original "Rapid Bioassessment Protocols for Use in Streams and Rivers" (Plafkin et al., 1989). Metric scores are calculated in two ways for both the test site and the composite reference metric values of high-quality streams in each ecoregion (OCC, 2008). Macroinvertebrate taxonomic results for each site were analyzed to produce a percent of reference score for the OKBIBI. The OKBIBI estimates that 50% (+/-8%) of the population has a supporting macroinvertebrate condition and that 27% and 17% of the population is either slightly or moderately impaired, respectively (Figure 5).

To estimate condition of algal biomass, chlorophyll-a concentrations were compared to multiple screening levels. For benthic chlorophyll-a, several screening levels were used including: 1) 100 mg/m² which is a nuisance level (BenUSAPSL), and 2) 45.7 mg/m² representing the 25th percentile of all OWRB benthic data (BenP25). Similarly, three screening levels were established for sestonic chlorophyll-a including: 1) 10 mg/m³ which is the water quality standard for sensitive water supplies (SesChl10), 2) 25 mg/m³ representing the value necessary to calculate a threshold trophic state index (TSI) of 62 (SesChl25), and 3) 19 mg/m³, which is the mean of all OWRB sestonic chlorophyll data (SesChlMean). For both benthic and sestonic populations, the greater majority of sites are not exceeding any screening limit, approximately 65-66% (+/-8%) statewide. For the benthic population, the BenP25 is exceeded at a rate nearly twice that of the BenUSAPSL. The nuisance screening level is exceeded nearly 14% of the time, while the 25th percentile exceeds an estimated 29% of the time. For the sestonic screening limits, statewide estimated exceedances range from 15% to 35% (Figure 6).

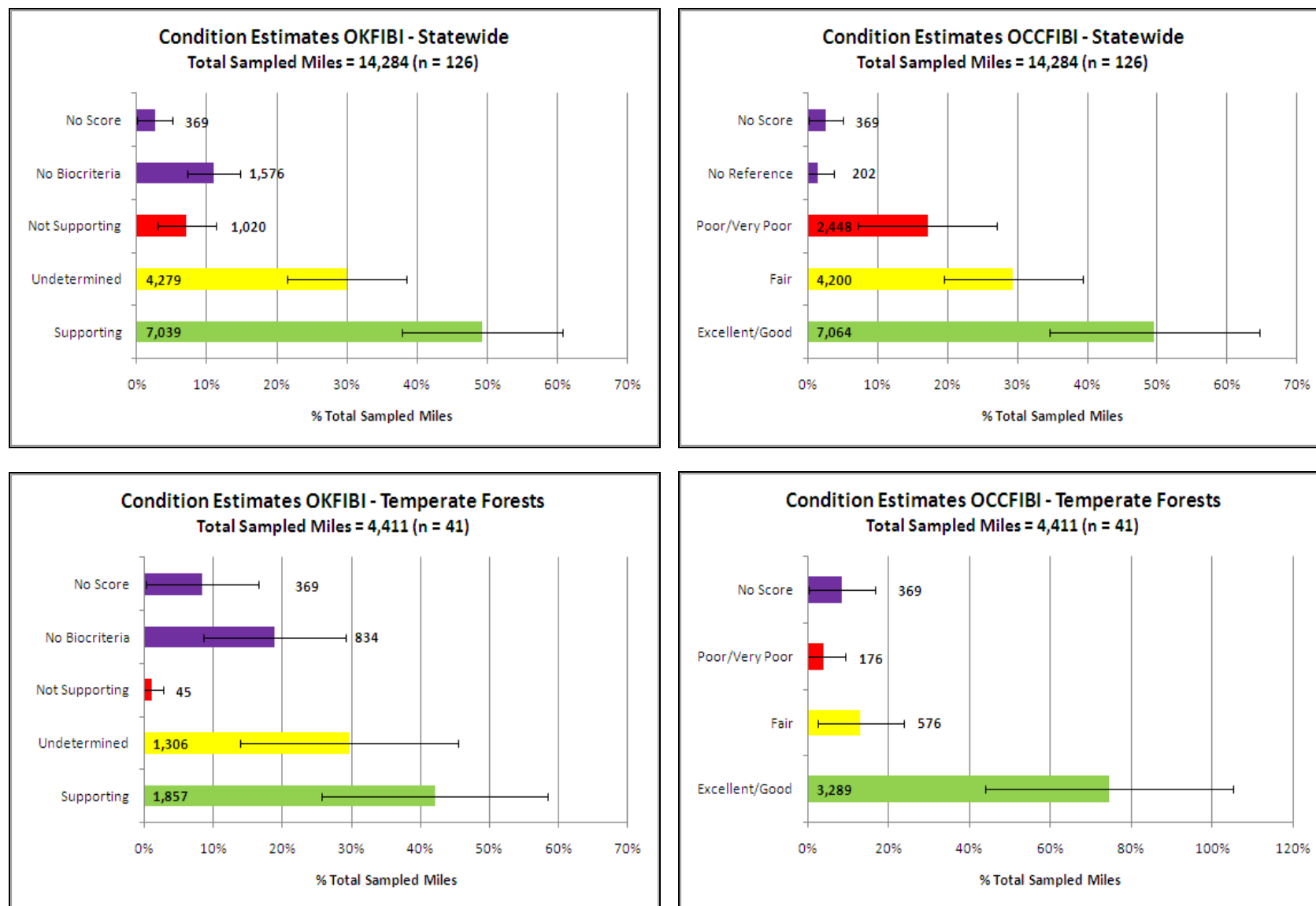


Figure 3. Fish condition estimated statewide and in the Temperate Forests region using the OKFIBI and OCCFIBI. (Label represents total sampled miles in particular category).

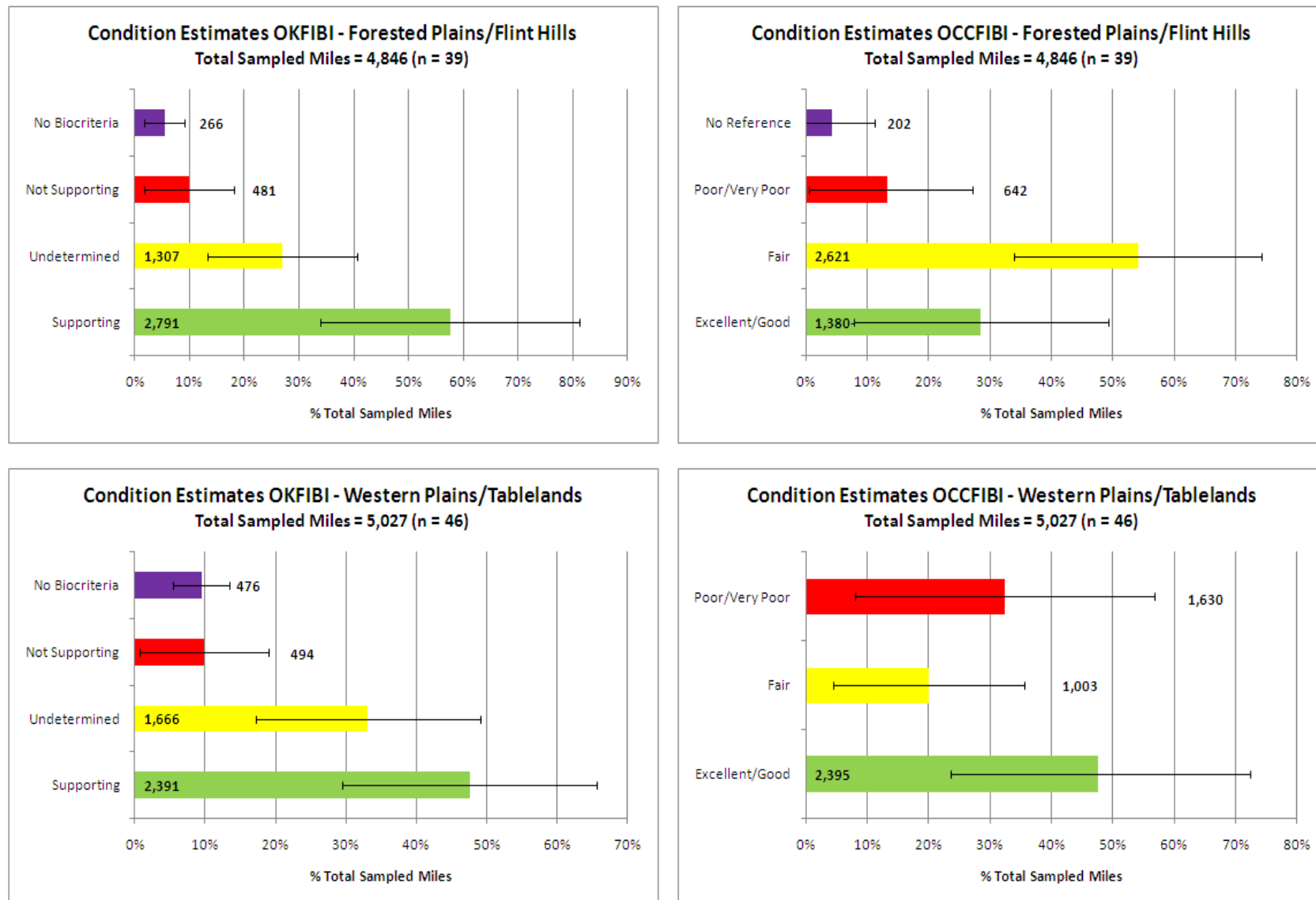


Figure 4. Fish condition estimated in the Forested Plains/Flint Hills and Western Plains/Tablelands. (Label represents total sampled miles in particular category).

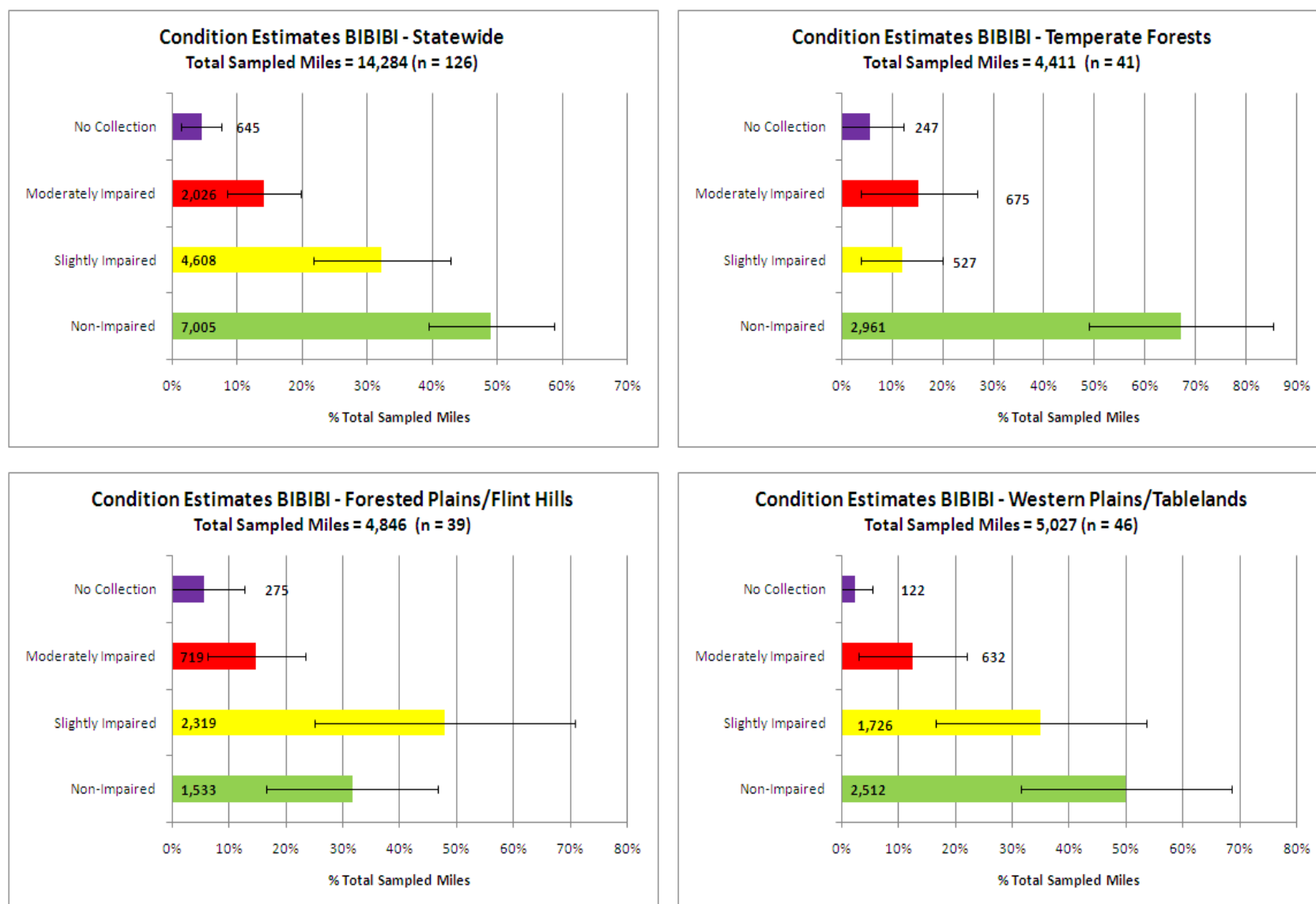


Figure 5. Macroinvertebrate condition estimated Statewide and in the Temperate Forests, Forested Plains/Flint Hills, and Western Plains/Tablelands using OKBIBI. (Label represents total sampled miles in particular category).

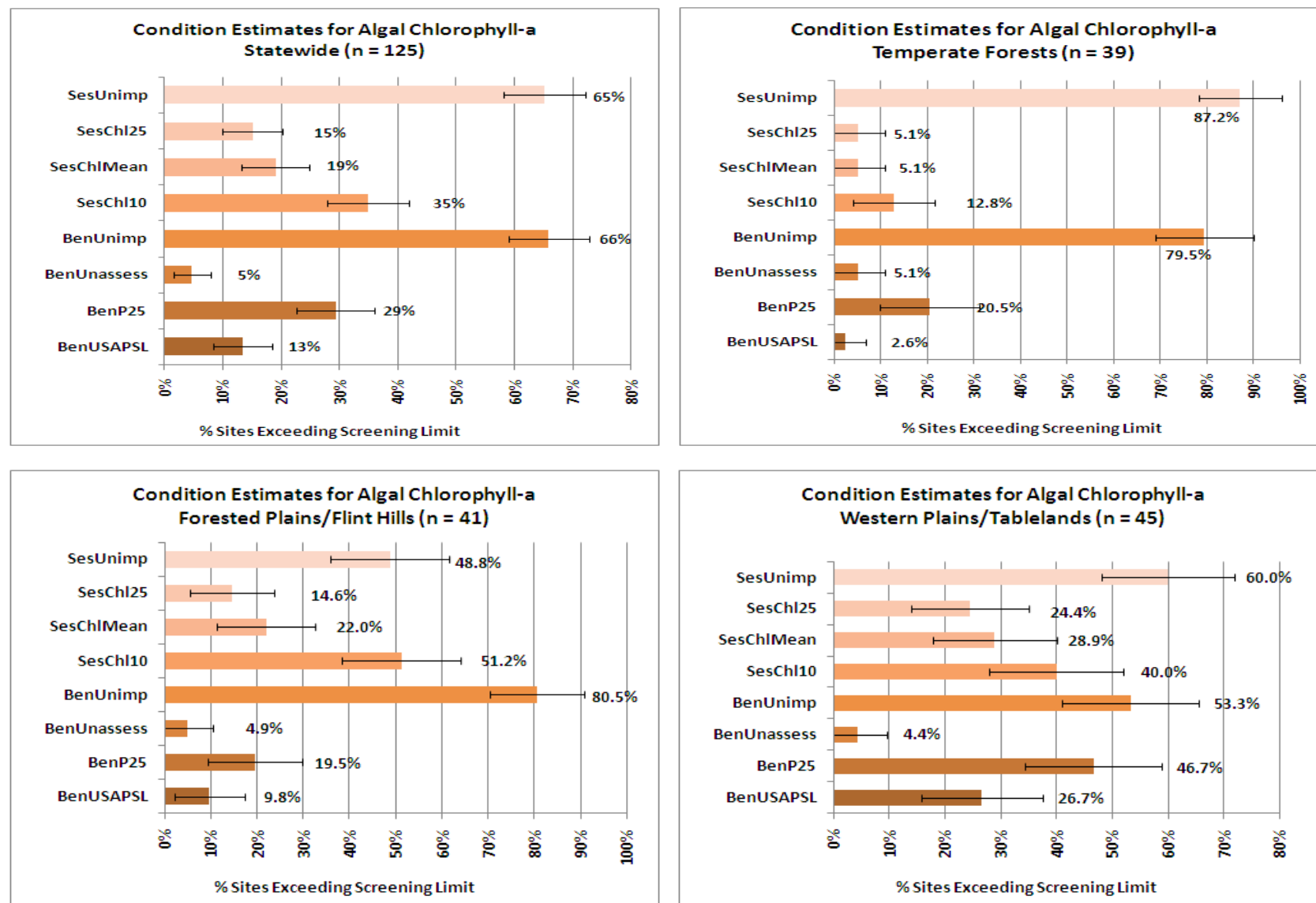


Figure 6. Algal chlorophyll-a condition estimated for all geographic scales. Upper and lower bounds represent a 90% confidence interval. (Refer to Table 10 for stressor descriptions.)

Conclusions

This report marks Oklahoma's first attempt at making a statistically based assessment of the condition of Oklahoma's waters. The study benefits this report in several ways. First, this study marks Oklahoma's first attempt at making a statistically based assessment of the condition of Oklahoma's waters. The OWRB recommends that the study and conclusions be adopted into the 305(b) section of Oklahoma's Integrated Water Quality Report. Included graphics and tables can be used to show overall statewide and regional condition. Second, individual waterbodies not yet included in Oklahoma's Integrated Water Quality Report now have some level of assessment.

The concept of using relative risk to develop a relationship between biological condition and stressor extent was developed initially for the USEPA's National Wadeable Streams Assessment (USEPA, 2006) by Van Sickle et al. (2006). The method calculates a ratio between the number of streams with poor biological condition/high stressor concentration and those with poor biological condition/low stressor concentration. A variety of stressors were used to determine stressor extent and calculate relative risk. Nutrient stressors include measures total phosphorus, total nitrogen (nitrate + nitrite + total Kjeldahl nitrogen), and available nitrogen (nitrate + nitrite + ammonia). General water quality stressors represent a diverse group of parameters—*in situ* and salinity-related parameters. *In situ* parameters include pH, dissolved oxygen, turbidity, and water temperature. Salinity-related parameters include conductivity, chloride, sulfate, and total dissolved solids (TDS). Metals were used in stressor studies to provide insight into stressors related to biological condition as well as those related human health beneficial uses—public/private water supply and fish consumption. Habitat stressors include total habitat score, several individual habitat metrics, and an index for sedimentation. Relative risk was determined for fish, macroinvertebrate, and algal condition. The relative risk analysis produced widely variable results depending upon both condition and stressor and has implications for criteria development, not only at the stressor level, but for biological condition as well.

Conclusions based on analysis are: 1) regional reference condition needs to be refined across all Omernik Level III ecoregions to include many Omernik Level IV ecoregions, 2) effective nutrient criteria will lie somewhere between regional screening levels and those in Oklahoma rule, 3) macroinvertebrates tend to respond in a more predictable fashion to water quality stressors than do fish, 4) sestonic algal condition is more easily predicted by nutrient concentrations than benthic algal condition, 5) application of naturally occurring condition protocols can benefit from relative risk analysis, 6) Oklahoma should explore the use of relative bed stability (RBS) as a measure of sedimentation, and 7) regional nuisance benthic algal screening levels are needed. Additionally, other recommendations can be made from the varied analysis, including: 1) all metals listed in the OWQS (OWRB, 2007a) but not occurring above criteria in ambient monitoring programs should not be monitored further, 2) since most metals occur regionally, a table specifying regional metals of concern should be created, 3) the contact recreation use should be a tiered use much like the aquatic life uses, and 4) refine agriculture criteria to include conductivity as a surrogate for TDS or create a regional criteria for conductivity to use in place of TDS.

In Oklahoma, probabilistic monitoring is an ongoing process. In terms of monitoring, probabilistic design has been completely integrated into both the OWRB and OCC monitoring programs (OWRB, 2009b). The OWRB is currently participating in the National Rivers and Streams Assessment (NRSA) and will use data from it to provide an update to the current report. Also, the third two-year statewide study will begin in winter or summer 2009 and include 50 sites. Substantive changes to the program will include: 1) use of the NRSA protocols for large wadeable and non-wadeable waterbodies, 2) use of NRSA habitat protocols for wadeable streams in concert with the current rapid bioassessment habitat protocol, 3) inclusion of a second winter macroinvertebrate index period, 4) inclusion of dissolved metals for some analytes, and 5) exclusion of bacteria from

program. The OCC initiated a probabilistic program during 2008 that will provide estimates for planning basins throughout the state. Fifty random sites are being monitored per basin over the five-year rotating basin cycle. Lastly, the OWRB will conclude the Illinois River Probabilistic Monitoring Survey in 2009-2010. It is the first regionally based probabilistic study in Oklahoma, and is centered on setting a baseline biological condition to assist in implementation of nutrient criteria in Oklahoma's scenic rivers. Additional plans are in the works for future regionally based studies.

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Appendix G – Response to Public Comments

Comments were received from:

- (a) Graham Brannin, City of Tulsa (COT)
- (b) Jami Skimbo, City of Tulsa (Tulsa)
- (c) Bruce Noble, U.S. National Park Service (NPS)
- (d) Julie Shannon, City of Bethany (Bethany)
- (e) Don Molnar, ODAFF (ODAFF)
- (f) U.S. EPA Region 6 (EPA)

This key is used in the summary of comments below to identify the commenter. DEQ responses to comments are indicated in *italics*.

1. (COT) Page 8, 2nd paragraph – “Tulsa Public Works and Development” should be changed to “City of Tulsa”.

DEQ Response: *This correction has been made in the final report.*

2. (COT) Shouldn't the Cross Timbers ecoregion have biological criteria?

DEQ Response: *The biocriteria map in the Draft 2012 Integrated Report is not the correct map. The correct version of the map has been included in the final report. The biocriteria specified in Chapter 46 are based on historical ecoregion boundaries which did not include an ecoregion named “Cross Timbers.” A majority of the ecoregion named “Cross Timbers” in the latest ecoregion map is covered by the ecoregion name “Central Oklahoma-Texas Plains” in Chapter 46 and in the proper map that is now included in the final version of the 2012 Integrated Report.*

3. (COT) Page 43, it references “OAC 785:46-15-5 (see Figure 12)” – there is no such figure in the document.

DEQ Response: *This was a typographical error and has been corrected to properly refer to Figure 4 in the final version of the report.*

4. (COT) There is concern that Blue Thumb volunteer biological screening collections and analysis are treated the same as Oklahoma Conservation Commission and OWRB data. The methods, training, and QA are vastly different. The Blue Thumb data should not be used to determine impairment.

DEQ Response: *A limited scope of Blue Thumb data has been utilized in use support assessments for years. Previously, most of the data used have been bacteria, which were collected and analyzed using the same procurement and laboratory methods employed by OCC's ambient monitoring program. Blue Thumb biological collections are made using the same methods, training, and Quality Assurance (QA) as OCC's ambient program. In fact, all Blue Thumb biological collections are made only under the direct oversight and effort of OCC staff; none is exclusively volunteer collected. All data are collected under an EPA approved Quality Assurance Project Plan (QAPP), which due to the rigor of collection effort, clearly conveys the intent to employ biological data in use support assessment, as demonstrated in this excerpt from the Blue Thumb QAPP:*

The general monitoring is executed to gather rudimentary data for education programs and is not intended or designed for enforcement purposes. However, biological data collections (fish and macroinvertebrates) and instream habitat assessments are obtained under direct supervision of OCC staff following OCC Standard Operating Procedures (SOPs), so these data are used for assessment of streams in accord with Oklahoma State Standards to determine attainment of relevant designated uses.

No Change was made as a result of this comment.

5. (COT) I would like to review the latest data collected by the contributing agencies.

DEQ Response: *Water quality data is collected by various agencies in the State. Upon request, DEQ can direct you to the proper agencies responsible for the collection of data on specific waterbodies. No change was made as a result of this comment.*

6. (COT) Comparing urban streams to rural reference streams may be unrealistic.

DEQ Response: The only assessments involving reference comparisons are those for biological collections, specifically, fish collections with an “undetermined” result from state biocriteria (which use number ranges, not reference conditions) and macroinvertebrates. Reference conditions were derived from pooled averages of high quality sites in each ecoregion (i.e., not the score of only one site) and reflect the quality of streams achievable and thus comparable for their assigned beneficial use (e.g., WWAC, CWAC, HLAC). If the methods consistently resulted in nonsupport decisions for urban streams, this would pose concern for applicability and indicate a need for review. However, assessments to date don’t indicate a strong trend toward impairment of urban streams (e.g., nearly half of the streams assessed in one particular metro area were found to support their assigned FWP beneficial use based on fish). No change was made as a result of this comment.

7. (Tulsa) “On Page 8 of your report you have Tulsa Public Works and Development Department and we’re no longer that and haven’t been. So we just need City of Tulsa on that, and I believe you got an email from us also from Tulsa.” (Verbal comments from Public Meeting)

DEQ Response: This correction has been made in the final report.

8. (NPS) Given that the source of the dissolved oxygen issue at the Lake of the Arbuckles, and presumably at most reservoirs in Oklahoma, is “unknown”, would it not make sense to somehow offer an explanation that dissolved oxygen problems are largely to be anticipated in non-natural reservoirs in Oklahoma? This may not result in the removal of the lake (or lakes) from the 303d list, but it would offer a better explanation than “unknown” and would remove some of the sting of being included on the list.

DEQ Response: At this point we cannot isolate the source of the impairment or determine whether the issue is due to natural or man-made conditions. Dissolved oxygen depletion occurs in both natural lakes and man-made reservoirs. Many non-natural lakes in Oklahoma are not impaired for dissolved oxygen. No change was made as a result of this comment.

9. (NPS) I am not an expert in water quality so the seriousness of dissolved oxygen problems is not clear to me. However, I am lead to believe that the circumstances are not catastrophic since the Lake of the Arbuckles continues to be the source of drinking water for several municipalities and is a recreational destination for upwards of a million people every year. That being the case, it leads a layperson like me to wonder if there's even a need to include a reservoir on the 303d list for an endemic problem like dissolved oxygen. In the grand scheme of things, what purpose does the listing really serve?

DEQ Response: The Lake of the Arbuckles does not meet dissolved oxygen standards as related to the Fish and Wildlife Propagation – Warm Water Aquatic Community beneficial use. Dissolved oxygen depletion can potentially affect fish communities resulting in an impact on recreational opportunities. As the lake does not meet the water quality standards for dissolved oxygen, the lake is placed on the 303(d) list and a TMDL must be completed. The use of the lake for a drinking water source is not related to the Fish and Wildlife Propagation beneficial use assessment. The use of the reservoir for drinking water is assessed through the Public and Private Water Supply beneficial use assessment. Dissolved oxygen depletion is not used to determine the attainment status of the Public and Private Water Supply beneficial use. No change was made as a result of this comment.

10. (Bethany) “I’m concerned that if the Blue Thumb data, in particular, is used – which it may always be used – but that if just that data is used, there are some cities that may not want to partner with Blue Thumb for their city’s stormwater program. And I think that would be a great loss to Blue Thumb and a great loss to all the cities that use Blue Thumb to help in their program but it becomes sort of, you know a situation where if you utilize the Blue Thumb data which is supposed to be a field screen, and then it puts their streams on the 303(d) list because they use that data, that may not support collecting that data for the programs.” (Verbal comments from Public Meeting)

DEQ Response: The Integrated Report process requires the consideration of “all existing and readily available water quality related data and information” in the assessment and listing process. DEQ solicits data and/or assessments

from any and all sources preceding each reporting cycle, providing that the data was collected using approved QA protocols and under an approved QAPP or similar quality control process. (See response to public comment #4 in this document for an explanation of the Blue Thumb biological monitoring program.) The assessments using this data resulted in “attainment of FWP” assessments for many streams, including those draining incorporated metropolitan areas. DEQ directs specific concerns regarding the nature of the Blue Thumb Program relationship with the cities to Cheryl Cheadle, Blue Thumb Program Director (918-398-1804 or cheryl.cheadle@conservation.ok.gov). No change was made as a result of this comment.

11. (EPA) EPA Comments on Oklahoma’s Draft 2012 303(d) List

In EPA’s review of the state of Oklahoma’s draft 303(d) list, we note that three “Scenic River” waters, including Lee Creek, Little Lee Creek, and Little River (Mountain Fork), are not listed for total phosphorus. The basis for the state’s proposed action to not list these waters is that they are in compliance with the total phosphorus criterion (0.037mg/L) protective of the Aesthetics beneficial use. Less than 25% of the rolling 90-day geometric means calculated for total phosphorus in each of these waters exceeded the criterion. In a segment of a Scenic River, 25% or more of these rolling 90-day geometric means must exceed the total phosphorus criterion for the Aesthetics beneficial use to be deemed not supported, as outlined in Oklahoma’s Use Support Assessment Protocols (USAPs) found in the state’s Administrative Code, Title 785, Chapter 46.

While EPA agrees with these findings when applying the above procedure outlined in the USAPs, we continue to have concerns with the apparent discrepancy between this procedure and the state’s water quality standards (WQS). Oklahoma’s WQS, as outlined in Oklahoma’s Administrative Code, Title 785, Chapter 45, state that the “thirty (30) day geometric mean total phosphorus concentration in waters designated “Scenic River”...shall not exceed 0.037mg/L.” We understand that the assessment procedure was developed as a “proxy” metric to assess the WQS in light of the challenges with acquiring adequate data in a 30-day period. However, recent court cases and changes in EPA policy have brought about a greater focus on the specific language found in a state’s WQS.

In EPA’s 2006 integrated report guidance, it states that past EPA guidance “recommended making non attainment decisions, for ‘conventional pollutants’ ...when more than ‘10% of measurements exceed the water quality criterion.’ Use of this rule when addressing conventional pollutants, is appropriate if its application is consistent with the manner in which applicable WQC [water quality criteria] are expressed” (brackets added). Further, the guidance clarifies that “use of the ten percent rule for interpreting water quality data is usually not consistent with WQC expressed either as: 1) instantaneous maxima not to be surpassed at any time, or 2) average concentrations over specified times. In the case of ‘instantaneous maxima (or minima) never to occur’ criteria, use of the ten percent rule typically leads to the belief that segment conditions are equal or better than specified by the WQC, when they in fact are considerably worse. (That is, pollutant concentrations are above the criterion-concentration a far greater proportion of the time than specified by the WQC.)” In summary, the policy stated in EPA’s integrated report guidance indicates that EPA will, in the absence of any qualifying language regarding “shall not exceed” criteria statements in state WQS, review state 303(d) listing decisions based on a plain reading of the state’s applicable WQS, i.e. any 30-day geometric mean total phosphorus result that exceeds 0.037 mg/L results in a finding of non-support for any water body identified in Oklahoma’s WQS as a Scenic River.

We recognize the state of Oklahoma’s challenges, including resource or logistical constraints, with acquiring adequate data in a 30-day period to perform an assessment in accordance with the 30-day averaging period and “shall not exceed” frequency as laid out in Oklahoma’s WQS. Further, we recognize that in reality it may be very difficult to achieve a 30-day geometric mean of 0.037 mg/L at all times and unrealistic to expect any mitigation or restoration practice to achieve this goal under all environmental conditions. However, we believe that the conflicts between the Oklahoma WQS and USAPs must be reconciled in some manner so as to clarify the state’s expectations for assessing the total phosphorus criterion in Scenic Rivers. As noted in EPA’s previous comments to the Oklahoma Water Resources Board (OWRB) during Oklahoma’s re-evaluation of the Scenic Rivers total phosphorus criterion, one possible option would be to add a statement or footnote to the WQS at OAC 785:45-5-19(c)(2) to clarify the applicability or implementation of the 30-day averaging period and “shall not exceed” language in light of monitoring challenges and data representativeness considerations previously raised by OWRB..

DEQ Response: A use support protocol was duly adopted and is contained within OAC 785:46-15-14(b). Oklahoma statutes require that this protocol be fully implemented by Oklahoma state environmental agencies and it has been reviewed in the past by the USEPA Region 6 staff. To interpret total phosphorus data from scenic rivers outside of that protocol would be counter to statutory requirements and to Oklahoma's implementation goals of consistent, documented implementation and scientific defensibility. Because standards development and implementation is a public process, the OWRB does welcome comments and suggestions from all parties concerning opportunities for improvement and clarity. This comment was forwarded to OWRB for their consideration. No change was made as a result of this comment.