

Appendix D - 2016 Oklahoma 303(d) Delisting Justifications

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK120400010070_00	Webbers Falls Lake	Enterococcus	WQS attained; Enterococcus geometric mean of 20.84 cfu/mL is below criterion	
OK120410010100_00	Cloud Creek	Sulfates	None of 20 samples exceeds 250 mg/L criteria for sulfates	
OK120420020130_00	Sahoma Lake	Oxygen, Dissolved	DO assessment is undetermined; between 55-69% of water column has DO less than 2 mg/L	
OK121300030230_00	Pawhuska Lake	Sulfates	WQS attained; no sulfate sample exceeds 250 mg/L	
OK121300040350_00	Hominy Lake	Oxygen, Dissolved	DO assessment is undetermined; 50-62% of water column is below 2 mg/L	
OK121400010010_10	Caney River	Turbidity	WQS attained. Only 2 of 22 (9.1%) exceeded criterion.	
OK121500030010_00	Verdigris River	Turbidity	IR 2016: out of 13 samples 0 exceed for turbidity	
OK121510020010_00	Verdigris River	Turbidity	WQS attained. 0 of 13 samples exceeded criterion.	
OK121600010280_00	Neosho River	Lead	WQS attained, 0 of 14 samples exceed criteria for lead	
OK121600010290_00	Spring Creek	Enterococcus	WQS attained; geometric mean of 22 (11 samples) is below criterion for Enterococcus	
OK121600020050_00	WR Holway Reservoir (Chimney Rock Lake)	Oxygen, Dissolved	WQS attained. No instances of greater than 50% of the volume of the lake were below 2 mg/L using Quarterly sampling and real-time monitoring platform data.	
OK121700030080_00	Illinois River	Lead	WQS attained; 0 of 7 samples exceed	
OK121700030080_00	Illinois River	Escherichia coli	WQS attained, geometric mean of 91.2 is below criterion	
OK121700030280_00	Illinois River	Escherichia coli	WQS attained, geometric mean of 52.3 is below criterion	
OK121700030350_00	Illinois River	Enterococcus	WQS attained, geometric mean of 16.6 is below criterion	
OK121700030350_00	Illinois River	Escherichia coli	WQS attained, geometric mean of 12.8 is below criterion	
OK121700050010_00	Illinois River, Baron Fork	Enterococcus	WQS attained; geometric mean of 30.8 is below criterion for Enterococcus	
OK121700050010_00	Illinois River, Baron Fork	Escherichia coli	WQS attained; geometric mean of 32.1 is below criterion for E. coli	
OK121700060010_00	Flint Creek	Escherichia coli	WQS attaining; geometric mean of 101.5 is below the E. coli criterion	
OK121700060080_00	Sager Creek	Oxygen, Dissolved	WQS attained; 4 of 41 (9.8%) samples exceed criteria for DO	
OK220100010010_30	Poteau River	Cadmium	Error in the input of data due to wrong interpretation of sampling station location. Data belongs in another segment (OK220100010010_40).	
OK220100010010_30	Poteau River	Copper	Error in the input of data due to wrong interpretation of sampling station location. Data belongs in another segment (OK220100010010_40).	
OK220100010010_30	Poteau River	Silver	Error in the input of data due to wrong interpretation of sampling station location. Data belongs in another segment (OK220100010010_40).	

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OK220100010010_30	Poteau River	Lead	Error in the input of data due to wrong interpretation of sampling station location. Data belongs in another segment (OK220100010010_40).	
OK220100010010_30	Poteau River	Selenium	Error in the input of data due to wrong interpretation of sampling station location. Data belongs in another segment (OK220100010010_40).	
OK220100010180_00	Caston Creek	Fishes Bioassessments	WQS attained for fish; USAP score of 39.	
OK220200010010_00	Arkansas River	Total Dissolved Solids	0 of 15 samples exceed criterion	
OK220200010010_00	Arkansas River	Enterococcus	16 samples with a geometric mean of 26.7	
OK220200020040_00	Little Sallisaw Creek	Copper	2007-2008 hardness was in incorrect units (micrograms vs milligrams)	
OK220200050010_10	Lee Creek	Lead	0 of 31 samples exceed criteria	
OK220600010070_10	Longtown Creek	Escherichia coli	WQS attained; geometric mean of 54.03 is below criterion for E. coli	
OK220600030010_10	Brushy Creek	Escherichia coli	WQS attained; geometric mean of 40.36 is below criterion for E. coli	
OK220600030050_00	Peaceable Creek	Sulfates	Sulfates were monitored 20 times and no sulfate value exceeded 250	
OK220600030050_00	Peaceable Creek	Escherichia coli	WQS attained; geometric mean of 52.77 is below criterion for E. coli	
OK220600040010_00	Gaines Creek	Oil and Grease	No oil and grease found; two different locations in this segment were monitored with a total of 27 samples	
OK220600050010_00	Eufaula Lake, Gaines Creek Arm	Oxygen, Dissolved	Change in WQS; DO range of 50-55% below 2 mg/L is considered "undetermined"	
OK310800020010_00	Washita River	Turbidity	WQS attained. Only 1 of 13 (7.7%) samples exceeded criteria	
OK310800020190_00	Chigley Sandy Creek	Escherichia coli	WQS attained; geometric mean of 98.11 is below criterion for E. coli	
OK310810010090_10	Rush Creek	Turbidity	10 samples, none exceed. highest value = 48.3	
OK310810040150_00	Humphreys Lake	Chlorophyll-a	TMDL approved (EPA TMDL No. 66037) 7/22/2016	66037
OK310830010010_00	Washita River	Turbidity	Only 2 of 28 (7.1%) samples exceed criteria	
OK310830010030_00	Delaware Creek	Fishes Bioassessments	Fish collection (8/4/2014) - attaining USAP	
OK310830020020_00	Stinking Creek	Escherichia coli	WQS attained; geometric mean of 70.75 is below criterion for E. coli	
OK310830030010_00	Washita River	Turbidity	WQS attained; only 3 of 32 samples exceed criterion (9.4%)	
OK310830030070_00	Cavalry Creek	Escherichia coli	WQS attained; geometric mean of 89.39 is below criterion for E. coli	
OK310830030100_00	Boggy Creek	Fishes Bioassessments	WQS attained; fish bioassessment indicates attainment	
OK310830030100_00	Boggy Creek	Escherichia coli	WQS attained; geometric mean of 84.70 is below criterion for E. coli	
OK310830030190_00	Beaver Creek	Fishes Bioassessments	Fish collection (5/13/2014) - attaining USAP	
OK310830030210_00	Barnitz Creek, East	Escherichia coli	WQS attained, E. coli geometric mean is 108.42	

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OK310830030210_00	Barnitz Creek, East	Fishes Bioassessments	WQS attained; Fish bioassessment is now supporting.	
OK310830040030_00	Stinking Creek	Fishes Bioassessments	WQS attained; Fish bioassessment is now supporting	
OK310830050010_00	Sugar Creek	Fishes Bioassessments	Fish collection (6/30/2014) - attaining USAP	
OK310840010010_00	Washita River	Turbidity	0 of 20 samples exceeded criteria	
OK311100010190_00	Red River	Sulfates	Error in original listing; data is for a different segment	
OK311100010190_00	Red River	Turbidity	Error in original listing; data was for a different segment	
OK311100010190_00	Red River	Enterococcus	Error in original listing; data was for a different segment	
OK3111310010010_00	Red River	Fishes Bioassessments	OKRM-1010 & OKRM-1026 from 2014	
OK3111310020010_00	Cache Creek, West	Chloride	WQS attained; mean of 173.4 mg/L is below YMS of 187 mg/L, and 2 of 20 chloride samples exceeded the segment SS of 285 mg/L (10%)	
OK3111310030040_00	Little Deep Red Creek	Escherichia coli	Sampled in 2010 and 2014; Geometric mean = 77.08	
OK311500010020_10	Red River, North Fork	Sulfates	WQS attained; only 1 of 30 samples exceed (3.3 %) the SS of 1040 mg/L and mean of 722.4 mg/L does not exceed YMS of 781 mg/L	
OK311500010080_00	Otter Creek	Escherichia coli	WQS attained; geometric mean of 47.21 is below E. coli criterion	
OK311500030010_00	Elk Creek	Escherichia coli	WQS attained; geometric mean of 32.1 is below criterion for E. coli	
OK311500030010_00	Elk Creek	Chloride	0 of 30 samples exceed criterion	
OK311500030120_00	Elk City Lake	Turbidity	WQS attained, only 4% of turbidity values exceed criterion	
OK311510010040_00	Lake Creek	Escherichia coli	WQS attained, geometric mean of 47.42 is below E. coli criterion	
OK311600020060_00	Turkey Creek	Escherichia coli	WQS attained. E. coli geometric mean is 55.06.	
OK311600020060_00	Turkey Creek	Fishes Bioassessments	WQS attained; Latest fish bioassessment does not indicate impairment.	
OK410100010010_10	Red River	Turbidity	WQS attained. Only 2 of 24 (8.3%) samples exceeded criteria	
OK410210060010_10	Little River, Mountain Fork	Copper	WQS attained; 0 of 31 copper samples exceed criterion of 2.649 ug/L	
OK410210080010_00	Glover River	Enterococcus	WQS attained. 11 samples with a GM of 26.00	
OK410300020190_00	Rock Creek	Turbidity	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410300020190_00	Rock Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410300030020_10	Cedar Creek	Turbidity	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410300030020_10	Cedar Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410300030060_00	One Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323

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OK410300030420_00	Buck Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410310020010_10	Kiamichi River	Copper	WQS attained, 0 of 16 copper samples exceed the criterion of 2.071 ug/L	
OK410310020070_00	Billy Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410310020100_00	Big Cedar Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400010070_00	Muddy Boggy Creek	Lead	WQS attained, long-term arithmetic mean of 1.8 ug/L is below criterion	
OK410400010130_00	Lick Creek	Escherichia coli	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400010130_00	Lick Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400010210_00	Whitegrass Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400010210_00	Whitegrass Creek	Escherichia coli	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400020200_00	Caney Creek	Enterococcus	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400020200_00	Caney Creek	Escherichia coli	TMDL approved (EPA TMDL No. 66323) 9/1/16	66323
OK410400030010_00	Clear Boggy Creek	Benthic-Macroinvertebrate Bioassessments	WQS attained, recent macroinvertebrates bioassessments indicate attainment	
OK410400030010_00	Clear Boggy Creek	Turbidity	Only 1 of 28 (3.6%) sample exceeded criteria	
OK520500020010_00	Wewoka Creek	Escherichia coli	12 samples in 2013-2014 with a GM of 33.69	
OK520500020010_00	Wewoka Creek	Chloride	Chloride mean of 206 mg/L is below the segment YMS of 334 mg/L, and no samples exceed the SS of 430 mg/L	
OK520500020090_00	Little Wewoka Creek	Escherichia coli	WQS attained; geometric mean of 55.28 is below criterion	
OK520510000010_00	Canadian River, North	Lead	17 samples attain	
OK520510000100_00	Turkey Creek	pH	pH was attaining with 20 samples	
OK520510000110_00	Canadian River, North	Lead	Error in original listing; data was for another stream segment.	
OK520510000110_00	Canadian River, North	Turbidity	Error in original listing; data was for another stream segment.	
OK520510000110_00	Canadian River, North	pH	Error in original listing; data was for another stream segment.	
OK520510000110_00	Canadian River, North	Enterococcus	Error in original listing; data was for another stream segment.	
OK520510000110_20	Canadian River, North	Escherichia coli	WQS attained; geometric mean of 38 is below criterion for E. coli	
OK520520000010_10	Canadian River, North	Escherichia coli	WQS attained; geometric mean of 69 is below criterion for E. coli	
OK520520000010_20	Canadian River, North	Escherichia coli	WQS attained; geometric mean of 44 is below criterion for E. coli	
OK520520000010_40	Canadian River, North	Escherichia coli	WQS attained; geometric mean of 79 is below criterion for E. coli	

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OK520520000210_00	Canadian River, North	Escherichia coli	WQS attained; geometric mean of 72 is below criterion for E. coli	
OK520530000010_10	Canadian River, North	Escherichia coli	11 samples with a GM of 42.7	
OK520600030010_00	Canadian Sandy Creek	Escherichia coli	WQS attained; geometric mean of 30.73 is below criterion	
OK520610010080_00	Willow Creek	Chlorpyrifos	WQS attained; 0 samples exceed acute and chronic criterion for Fish & Wildlife Propagation	
OK520610010180_00	Bishop Creek	Fishes Bioassessments	WQS attained for Fish Bioassessment; latest fish bioassessment does not indicate impairment	
OK520610010180_00	Bishop Creek	Chlorpyrifos	WQS attained; 0 samples exceed acute and chronic criterion for Fish & Wildlife Propagation	
OK520610020150_10	Canadian River	Turbidity	WQS attained; only 1 of 25 samples exceed criterion (4%)	
OK520700020010_10	Canadian River, Deep Fork	Lead	WQS attained; mean of lead samples is 3.64	
OK520700040020_00	Dry Creek	Escherichia coli	WQS attained; geometric mean of 125.09 is below criterion	
OK520700040260_00	Quapaw Creek	Escherichia coli	10 samples in 2013 and 2014. Geometric mean = 26.46	
OK520700050140_00	Captain Creek	Escherichia coli	11 samples in 2013-14; Geometric mean = 72.96	
OK520710010030_00	Coon Creek	Chlorpyrifos	WQS attained; 0 samples exceed acute and chronic criterion for Fish & Wildlife Propagation	
OK520710020030_00	Spring Creek	Fishes Bioassessments	WQS attained; fishes bioassessment indicates attainment	
OK520710020060_00	Canadian River, Deep Fork	Enterococcus	WQS attained, listed in error, only 2 samples collected within a recreation period	
OK520710020060_00	Canadian River, Deep Fork	Escherichia coli	WQS attained, listed in error, only 2 samples collected within a recreation period	
OK520800010050_00	Bird Creek	Total Dissolved Solids	WQS attained; none of 12 samples with mean 633.3 exceeds SS of 1576, mean of 633.3 is below YMS of 1192	
OK520800010050_00	Bird Creek	Ammonia (Un-ionized)	Out of 11 samples not one exceeded ammonia for temperature and pH	
OK520800020080_00	Pecan Creek	Oil and Grease	27 samples in 2013-2015 with no observations of oil and grease	
OK520800030010_00	Salt Creek	Escherichia coli	10 samples in 2013-2014; Geometric mean = 53.28	
OK520800030010_00	Salt Creek	Fishes Bioassessments	Not impaired; recent fish assessment does not indicate impairment	
OK520810000030_00	Hog Creek	Escherichia coli	10 samples in 2013-2014; Geometric mean = 74.79	
OK520810000030_00	Hog Creek	Oxygen, Dissolved	WQS attained; Only 1 of 21 samples (5%) did not meet the criteria to be considered attained	
OK520810000030_00	Hog Creek	Turbidity	WQS attained. Only 1 of 20 samples exceeded criterion.	
OK620900010290_00	Euchee Creek	Ammonia (Un-ionized)	WQS attained. 7 of 7 samples do not exceed criterion.	

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OK620900020050_00	Council Creek	Escherichia coli	WQS attained. Geometric mean of 105.11 is below the E. coli criterion.	
OK620900030010_00	Cimarron River	Turbidity	0 of 33 samples exceeded criteria	
OK620900030230_00	Beaver Creek	Escherichia coli	WQS attained; geometric mean of 20.02 is below the E. coli criterion	
OK620900040280_00	Carl Blackwell Lake	Chlorophyll-a	TMDL completed (EPA TMDL ID No. 66037) 7/22/16	66037
OK620910020010_10	Cimarron River	Enterococcus	TMDL approved (EPA TMDL No. 40622) 8/26/2011	40622
OK620910020040_00	Cooper Creek	Escherichia coli	WQS attained; geometric mean of 49.62 is below the E. coli criterion	
OK620910020250_00	Deep Creek	Escherichia coli	10 samples in 2013 with a GM of 113.55	
OK620910020310_00	Indian Creek	Escherichia coli	10 samples in 2013 with GM of 53.65	
OK620910030010_00	Skeleton Creek	Escherichia coli	15 samples collected with a GM of 123.9	
OK620910030040_00	Otter Creek	Escherichia coli	WQS attained; geometric mean of 52.71 is below the E. coli criterion	
OK620910040120_00	Deer Creek	Chlorpyrifos	WQS attained; 0 samples exceed acute and chronic criterion for Fish & Wildlife Propagation	
OK620910050010_00	Kingfisher Creek	Sulfates	WQS attained; only 2 of 20 samples exceeded SS and mean of 612.6 mg/L does not exceed YMS of 680 mg/L	
OK620910050010_00	Kingfisher Creek	Turbidity	WQS attained; only 1 of 15 (6.6%) samples exceeded criteria in 2012-2014	
OK620910050080_00	Winter Camp Creek	Sulfates	WQS attained; Sulfates - 599.19 (YMS 680, SS 873)	
OK620910050080_00	Winter Camp Creek	Escherichia coli	WQS attained; geometric mean of 97.0 is below criterion for E. coli	
OK620920010180_00	Main Creek	Escherichia coli	WQS attained; geometric mean of 77.66 is below the E. coli criterion.	
OK620920020080_00	Long Creek	Escherichia coli	WQS attained; geometric mean of 94.51 is below the E. coli criterion	
OK620920040010_00	Eagle Chief Creek	Escherichia coli	WQS attained; geometric mean of 43 is below the E. coli criterion	
OK620920050010_00	Buffalo Creek	Escherichia coli	WQS attained. 11 samples in 2012-2014 with a GM of 16.77	
OK620930000010_00	Cimarron River	Escherichia coli	14 samples collected with a GM of 116.8	
OK621000010010_30	Arkansas River, Salt Fork	Lead	IR2016: 16 samples attain with a mean of 2.58	
OK621000050010_00	Pond Creek	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 52.62	
OK621010010130_00	Clay Creek, West	Oxygen, Dissolved	DO assessment is undetermined; 2 of 18 (11%) below support criteria and 1 of 18 (5.5%) below non-support criteria.	
OK621010020010_00	Sandy Creek	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 16.08	
OK621010030010_00	Medicine Lodge River	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 30.71	

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OK621010030030_00	Driftwood Creek	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 102.83	
OK621100000010_00	Chikaskia River	Turbidity	TMDL approved (EPA TMDL No. 41088) 9/30/2011	41088
OK621100000010_10	Chikaskia River	Lead	WQS attained. The mean is 2.38 ug/L (17 samples).	
OK621200010200_00	Arkansas River	Turbidity	Only 2 of 27 (7.4%) samples exceeded criteria	
OK621200020210_00	Lake Ponca	Oxygen, Dissolved	DO assessment is undetermined; between 55-65% of water column has DO less than 2 mg/L	
OK621200030010_00	Black Bear Creek	Escherichia coli	13 samples collected with a GM of 88.2	
OK621200030010_00	Black Bear Creek	Lead	IR2016: 15 samples with a mean of 4.53	
OK621200030060_00	Lone Chimney Lake	Turbidity	WQS attained; only 4% of values exceed 25 NTU.	
OK621200040010_10	Salt Creek	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 16.62.	
OK621200050010_00	Red Rock Creek	Escherichia coli	WQS attained. 10 samples in 2013 with a GM of 86.50.	
OK621210000050_10	Beaver Creek	Escherichia coli	10 samples in 2013 with a GM of 56.33	
OK720500010150_00	Persimmon Creek	Escherichia coli	11 samples with a GM of 69.46	
OK720500020250_00	Duck Pond Creek	Escherichia coli	TMDL approved (EPA TMDL No. 39229) 9/28/2010	39229