



Small Watershed Rotating Basin Monitoring Program

Basin Group 5: Lower Red River Basin

Final Report, Cycle 2

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1.0 INTRODUCTION

1.1 Project Background and Description

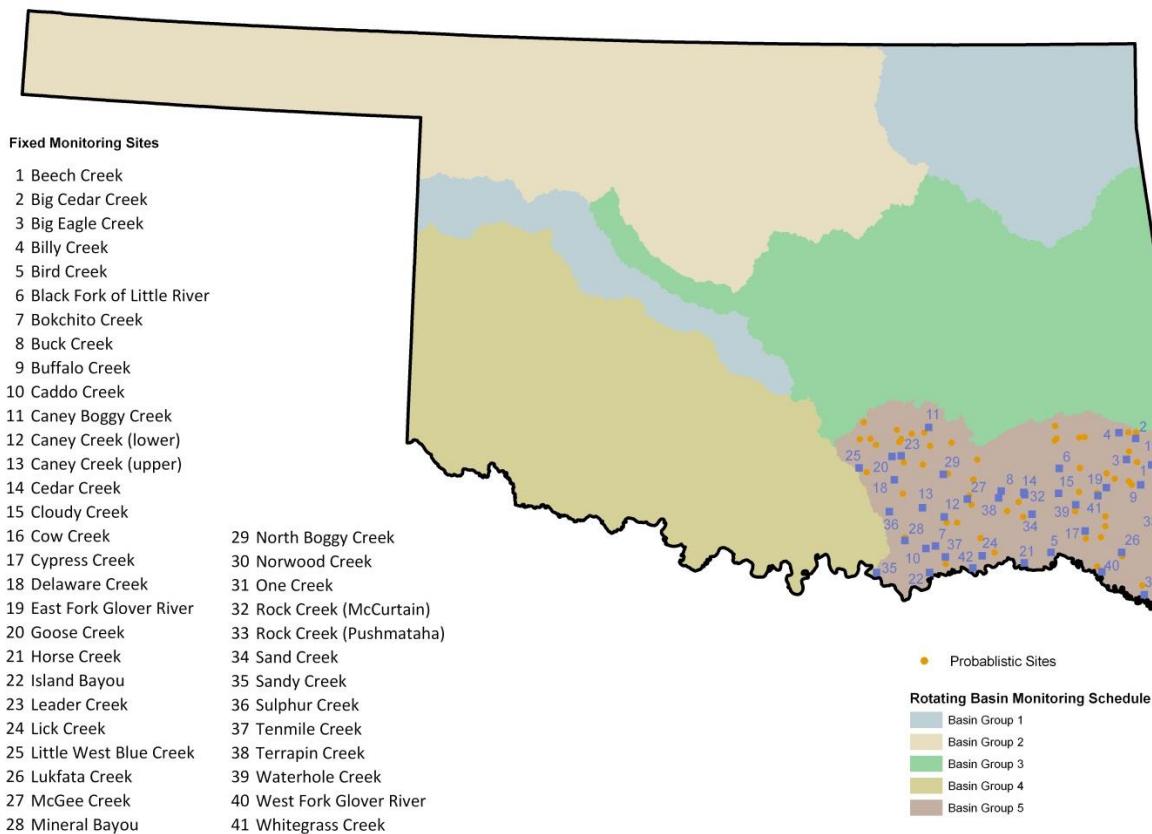
The Clean Water Act has charged each state's nonpoint source (NPS) pollution agency with two primary tasks: 1) identify all waters being impacted by NPS pollution, and 2) develop a management program describing programs to be implemented to correct any identified problems. In addition, each state's NPS agency is charged with identification of all programs which are actively planning or enforcing NPS controls in order to reduce NPS pollution in cooperation with local, regional, and interstate entities. The state NPS agency can then report on total program status with regard to efforts to address NPS impacts and improve water quality. The Oklahoma Conservation Commission (OCC) is charged by Oklahoma state statute as the NPS Program technical lead and therefore must monitor to determine the occurrence, nature and extent of NPS impacts to state waters. Robust and meaningful assessment of the state's water quality is the foundation for meeting the long-term goals of the Oklahoma NPS program and water quality management in general.

In 2000, the Oklahoma Conservation Commission (OCC) initiated a progressive ambient monitoring program to assess NPS issues on a larger spatial and temporal scale than previously done. Known as the *Small Watershed Rotating Basin Monitoring Program* ("Rotating Basin Program"), this effort entails fixed station sampling at or near the outlets of complete eleven digit Hydrologic Unit Code watersheds (HUC-11). Oklahoma contains all or part of 414 U.S. Geological Survey (USGS) 11-digit HUC basins which have been collated into eleven larger planning basins for state water quality management purposes. The sampling units for the Rotating Basin Monitoring Program are based at the outlets of HUC 11 watersheds located entirely in the state, with secondary sites located upstream in selected watersheds where isolation of a particular tributary influence is necessary. Fixed stations are segregated into strategic basin groups and are sampled every five weeks for a period of two years. Each year, sampling is initiated in a new basin group, resulting in a statewide coverage of all sites in five years. The data collected as part of the Rotating Basin Monitoring Program is used to determine designated use attainment as part of the State's biannual integrated report in accordance with the protocol in State law (OAC 785:45 and 785:46). Monitoring sites are coordinated with other agencies in the state to assure that little or no overlapping data is collected. Data is used to help determine priority watershed projects as part of the state NPS management plan approximately every five years. This report focuses on the fifth and final set of planning basins monitored in the five year rotation, the Lower Red River basin (Figure 1).

To complement the fixed site monitoring, the OCC added a probabilistic component to the Rotating Basin Monitoring Program in 2008. This addition to the Rotating Basin Program provides a statistically qualified assessment of water quality conditions throughout each of the project basin units. To accomplish this, sites are randomly selected from all of the waters of interest in a target area (i.e., basin unit), and the monitoring results are used to estimate water quality conditions in the larger area with known confidence (USGAO 2004). Through the probabilistic component, data will be collected from 250 stream locations over a five-year period, with 50 targeted sites sampled each year. The probabilistic sites will be coordinated with the basins being sampled by the rotating basin project in any given year;

thus, for 2010, both rotating basin and probabilistic sites were sampled in the Lower Red basin (Figure 1).

Figure 1. Fixed and probabilistic monitoring sites in "Basin Group 5" for the second cycle of the Small Watershed Rotating Basin Monitoring Project.



Effectively coordinated with other state monitoring programs, the OCC's Rotating Basin program is designed to accomplish the state's NPS monitoring needs in four stages. The first stage includes a comprehensive, coordinated investigation and analysis of the causes and sources of NPS pollution throughout the state – *Ambient Monitoring*. The second stage involves more intensive, specialized monitoring designed to identify specific causes and sources of NPS pollution – *Diagnostic Monitoring*. The data from diagnostic monitoring can be used to formulate an implementation plan to specifically address the sources and types of identified NPS pollution. The third stage of monitoring is designed to initiate remedial and/or mitigation efforts to address the NPS problems – *Implementation Monitoring*. Finally, the fourth stage evaluates the effectiveness of the implementation through assessment and post-implementation monitoring – *Success Monitoring*. This assessment program provides a thorough and statistically sound evaluation of Oklahoma's waters every five years, which helps focus NPS program planning, education, and implementation efforts in areas where they can be most effective.

The Small Watershed Rotating Basin Monitoring Program considers the following specific questions in the context of Oklahoma Water Quality Standards and Use Support Assessment Protocols (USAPs) in addressing NPS pollution:

1. Which HUC 11 waterbodies are not supporting assigned beneficial uses due to NPS or NPS plus point source (PS) pollution?
2. Which waterbodies show elevated or increasing levels of NPS or NPS plus PS pollutants, which may threaten water quality?
3. What are the sources and magnitude of pollution loading within threatened or impaired waterbodies?
4. Which land uses or changes in land use are sources or potential sources for pollutants causing beneficial use impairment?

In its entirety, OCC's Rotating Basin Monitoring Program provides an assessment of water quality, watershed condition, and support status for selected streams statewide necessary for planning, implementation, and eventual evaluation of mitigation efforts. The statewide ambient monitoring program has allowed a comprehensive approach for the identification of nonpoint source (NPS) affected waters, as well as the identification of high quality streams. Results from this effort are used to assist the state in producing the 305(b) and 303(d) lists which are required by the EPA to assess beneficial use support for Waterbodies biannually.

This report discusses the results of the *ambient* (routine physical, chemical, and biological sampling) and *diagnostic* (special parameter sampling) stages of the second cycle of the Rotating Basin program in the Lower Red basin (see Figure 1). Data from both fixed and probabilistic sites will be discussed.

Implementation and success monitoring are typically accomplished through priority watershed projects and reported on in project-specific final reports.

This program will continue to provide a robust baseline dataset to assess the impact of NPS pollution throughout the state, identify the causes and sources of the pollution, and determine the success of measures to improve water conditions. The use of probabilistic monitoring in conjunction with the rotating basin monitoring program will allow a statistically valid and qualified assessment/representation of the percentage of stream miles across the state that are in good or bad condition and the percentage of stream miles that are fulfilling or not fulfilling their designated uses.

2.0 MATERIALS AND METHODS

2.1 General

Sampling stations were selected to effectively represent streams of the Lower Red basin. Candidate streams were selected from subwatersheds within these basins located entirely within the state of Oklahoma having perennial water. Watersheds that did not have perennial water or were actually a segment of a larger river being sampled by another agency were not chosen. Where a particular watershed was monitored by another entity, the stream was dropped from consideration for a Rotating Basin site if the monitoring being conducted met the project data quality objectives. For most subwatersheds, the monitoring site was located near the outflow of the primary stream far enough upstream to limit backwater (surface and alluvial) effects of the waterbody to which it drained. For larger subwatersheds, an additional site was sometimes located upstream to isolate a particularly strong tributary influence. In some cases, sites were specifically chosen to monitor a stream draining an area of

landuse different from the majority of the other streams being monitored in that region or subwatershed.

Reconnaissance of all of the potential sites within the Lower Red basin was accomplished prior to the first round of monitoring in 2005, and sites which did not meet the sampling criteria were removed from the project. Forty-two sites were monitored during the first rotating basin cycle, from 2005-2007. The second cycle of the monitoring in these basins occurred from June 2010-May 2012. Several sites have changed slightly due to landowner permission issues and several more have been added. There were 41 fixed sites during this cycle of monitoring.

With the initiation of the probabilistic component of the Rotating Basin Program, the OCC sampled a total of 54 randomly selected sites in the Lower Red basin during the summer of 2010. These sites were part of a master site list generated by Tony Olsen with the EPA Corvallis Lab which included 150 sites total. Sampling occurred in the order the list was generated until at least 50 sites were assessed. The additional sites were “back-ups” to be used if one of the first 50 sites was inaccessible or if access permission was denied.

The sites monitored in the Lower Red basin occur in five level-three ecoregions: the Arkansas Valley (AV), Cross Timbers (CT), East Central Texas Plains (ECTP), Ouachita Mountains (OM) and South Central Plains (SCP) (Woods et al., 2005). The fixed sites in the CT are in the “Arbuckle Uplift” level 4 ecoregion, which is a unique area in the CT region. These changes are indicated by the “modified ecoregion” column in Table 1.

Table 1. Fixed site list for Rotating Basin Monitoring Program: Basin Group 5, Cycle 2.

Site Name	WBID	Latitude	Longitude	Legal Desc	County	Ecoregion	Modified Ecoregion
Beech Creek	OK410210-06-0320G	34.48682	-94.53915	SW NW NW 12-1S-26E	LeFlore	OM	OM
Big Cedar Creek	OK410310-02-0100D	34.6464	-94.6545	SE SW NW 14-2N-25E	LeFlore	OM	OM
Big Eagle Creek	OK410210-06-0160L	34.5217	-94.72282	NW NE NW 31-1N-25E	LeFlore	OM	OM
Billy Creek	OK410310-02-0070C	34.6822	-94.7759	SW SE SW 34-3N-24E	LeFlore	OM	OM
Bird Creek	OK410300-01-0100C	33.9721	-95.2819	NW SE SE 2-7S-19E	Choctaw	SCP	SCP
Black Fork of Little River	OK410210-03-0020C	34.4729	-95.2171	NW NE NW 16-1S-20E	Pushmataha	OM	OM
Bokchito Creek	OK410600-01-0090G	34.013	-96.12138	NE SE SW 23-6S-11E	Bryan	SCP	SCP
Buck Creek	OK410310-03-0420C	34.3394	-95.6417	SE SE NE 32-2S-16E	Pushmataha	OM	OM
Buffalo Creek	OK410210-06-0020G	34.36953	-94.62245	NW SW NW 19-2S-26W	McCurtain	OM	OM
Caddo Creek	OK410600-01-0140G	33.99738	-96.19118	NE NE NW 31-6S-11E	Bryan	SCP	SCP
Caney Boggy Creek	OK410400-06-0120G	34.7195	-96.1731	NE SW NW 20-3N-11E	Pontotoc	AV	AV
Caney Creek (lower)	OK410400-02-0200G	34.186	-96.0581	SE SE SE 20-4S-12E	Atoka	SCP	SCP
Caney Creek (upper)	OK410400-03-0020C	34.241	-96.21708	NW NE NE 2-4S-10E	Atoka	SCP	SCP
Cedar Creek	OK410300-03-0020M	34.33125	-95.4777	NW NW NW 1-3S-17E	Pushmataha	OM	OM
Cloudy Creek	OK410210-02-0300C	34.3247	-95.2234	SE SE NE 5-3S-20E	Pushmataha	OM	OM
Cow Creek	OK410210-06-0350G	34.5068	-94.4939	NE NW NE 5-1S-27E	McCurtain	OM	OM

Site Name	WBID	Latitude	Longitude	Legal Desc	County	Ecoregion	Modified Ecoregion
Cypress Creek	OK410210-01-0070G	34.0976	-95.0313	NE NW NW 29-5S-22E	McCurtain	OM	OM
Delaware Creek	OK410400-03-0240M	34.407	-96.4244	NW SW SW 1-2S-8E	Johnston	CT	Arbuckle
East Fork Glover River	OK410210-09-0010G	34.3557	-94.8721	NE SW NW 26-2S-23E	McCurtain	OM	OM
Goose Creek	OK410400-03-0490G	34.54597	-96.44043	SE NE NE 22-1N-8E	Coal	AV	AV
Horse Creek	OK410400-01-0040G	33.91003	-95.47578	NW NW NE 36-7S-17E	Choctaw	SCP	SCP
Island Bayou	OK410700-00-0040G	33.85362	-96.16523	SW SW SW 16-8S-11E	Bryan	ECTP	ECTP
Leader Creek	OK410400-03-0370B	34.55015	-96.37448	NW NE 20-1N-9E	Pontotoc	AV	AV
Lick Creek	OK410400-01-0130G	33.95413	-95.78193	NE NE NE 18-7S-15E	Choctaw	SCP	SCP
Little West Blue Creek	OK410600-02-0100C	34.4767	-96.6813	NE NE NW 16-1S-6E	Pontotoc	CT	Arbuckle
Lukfata Creek	OK410210-07-0010G	33.96817	-94.76617	NW NW NE 11-7S-24E	McCurtain	SCP	SCP
McGee Creek	OK410400-07-0010C	34.29292	-95.88928	NE SE NW 13-3S-13E	Atoka	OM	OM
Mineral Bayou	OK410600-01-0300G	34.04478	-96.34497	SE SE SW 10-6S-9E	Bryan	SCP	SCP
North Boggy Creek	OK410400-08-0010M	34.44047	-96.06523	NE NE SW 29-1S-12E	Atoka	OM	OM
Norwood Creek	OK410100-01-0050H	33.7133	-94.6075	NE NW NE 9-10S-26E	McCurtain	SCP	SCP
One Creek	OK410300-03-0060F	34.3168	-95.4699	SE SE SE 1-3S-17E	Pushmataha	OM	OM
Rock Creek (McCurtain)	OK410200-03-0010G	34.08407	-94.49043	NW NE NW 33-5S-27E	McCurtain	OM	OM
Rock Creek (Pushmataha)	OK410300-02-0190G	34.2005	-95.418	SE SW SE 16-4S-18E	Pushmataha	OM	OM
Sand Creek	OK410700-00-0260G	33.853	-96.5499	NE NW NW 23-8S-7E	Bryan	ECTP	ECTP
Sandy Creek	OK410600-02-0020G	34.21688	-96.45925	NE NE NE 16-4S-8E	Johnston	SCP	SCP
Sulphur Creek	OK410600-01-0030G	33.94658	-96.04985	SW SW NE 16-7S-12E	Bryan	SCP	SCP
Tenmile Creek	OK410300-03-0270C	34.29913	-95.66118	SE NW NE 18-3S-16E	Pushmataha	OM	OM
Terrapin Creek	OK410210-02-0150G	34.2551	-95.0981	SW NW NW 34-3S-21E	Pushmataha	OM	OM
Waterhole Creek	OK410100-01-0340D	33.853	-94.91352	SE SE SE 17-8S-23E	McCurtain	SCP	SCP
West Fork Glover River	OK410210-08-0010M	34.30885	-94.9359	SW NE NW 7-3S-23E	McCurtain	OM	OM
Whitegrass Creek	OK410400-01-0210G	33.88108	-95.85132	SW SW SW 4-8S-14E	Choctaw	SCP	SCP

Table 2 shows the site information for the probabilistic sites which were sampled.

Table 2. Probabilistic site list for Rotating Basin Monitoring Program: Basin Group 5, Cycle 2.

Site Name	WBID	Latitude	Longitude	Legal Desc	County	EcoRegion
Beaver Creek	OKLRED-108	34.21927615	-95.59895407	SW 11-4S-16E	Pushmataha	SCP
Big Cedar Creek	OKLRED-011	34.68019997	-94.64982382	2-2N-25E	LeFlore	OM
Blue River (025)	OKLRED-025	34.45044852	-96.62604412	SE 24-1S-6E	Johnston	CT
Blue River (034)	OKLRED-034	34.06241202	-96.34299941	SE 3-6S-9E	Bryan	CT
Blue River (086)	OKLRED-086	33.90529154	-96.04823352	SW NE 33-7S-12E	Bryan	SCP
Bois d' Arc Creek (131)	OKLRED-131	34.65034282	-96.60097662	NE 18-2N-7E	Pontotoc	AV

Site Name	WBID	Latitude	Longitude	Legal Desc	County	EcoRegion
Bois d' Arc Creek (009)	OKLRED-009	34.64675729	-96.67846067	SW NE 16-2N-6E	Pontotoc	CT
Bois d' Arc Creek (052)	OKLRED-052	34.15171028	-96.04187806	NW 3-5S-12E	Bryan	SCP
Boktuklo Creek	OKLRED-110	34.39041131	-94.70836081	SW 8-2S-25E	McCurtain	OM
Brier Creek	OKLRED-057	34.4968496	-96.21411388	1-1S-10E	Coal	AV
Buffalo Creek	OKLRED-059	34.37023116	-94.68547484	21-2S-25E	McCurtain	OM
Caney Boggy Creek	OKLRED-005	34.6883952	-96.20735942	NW 36-3N-10E	Coal	AV
Cedar Creek (046)	OKLRED-046	34.27341127	-95.51518742	SW 22-3S-17E	Pushmataha	OM
Cedar Creek (082)	OKLRED-082	34.1829123	-94.88381934	NW 27-4S-23E	McCurtain	OM
Chickasaw Creek	OKLRED-019	34.44257014	-96.03268807	NW 27-1S-12E	Atoka	OM
Clear Boggy Creek (053)	OKLRED-053	34.7477843	-96.65090939	11-3N-6E	Pontotoc	CT
Clear Boggy Creek (075)	OKLRED-075	34.61463653	-96.56022625	27-2N-7E	Pontotoc	AV
Clear Boggy Creek (094)	OKLRED-094	34.15134497	-95.96586174	5-5S-13E	Choctaw/Bryan	SCP
Clear Boggy Creek (097)	OKLRED-097	34.50992377	-96.35599361	SE 33-1N-9E	Coal	AV
Colbert Creek	OKLRED-120	34.12416078	-94.88474327	NE 15-5S-23E	McCurtain	OM
Coon Creek	OKLRED-010	34.44044246	-94.8700513	SW NW 26-1S-23E	McCurtain	OM
Cucumber Creek (118)	OKLRED-118	34.56889599	-94.70325462	SW 8-1N-25E	LeFlore	OM
Cypress Creek (032)	OKLRED-032	34.10290505	-95.03000108	SW 20-5S-22E	McCurtain	OM
Cypress Creek (072)	OKLRED-072	34.05234843	-95.02803138	NW 8-6S-22E	McCurtain	SCP
Dry Creek (054)	OKLRED-054	34.63892539	-95.24788258	SW 18-2N-20E	Pushmataha	OM
Dry Creek (095)	OKLRED-095	34.65053555	-95.23475891	NW 17-2N-20E	Pushmataha	OM
East Billy Creek	OKLRED-089	34.68263736	-94.70664085	SW 32-3N-25E	LeFlore	OM
East Fork Glover River	OKLRED-015	34.40616099	-94.8124062	SW 5-2S-24E	McCurtain	OM
Glover River	OKLRED-048	34.05960453	-94.91636823	SE 5-6S-23E	McCurtain	SCP
Kiamichi River (014)	OKLRED-014	34.65892664	-95.02735832	NE 7-2N-22E	Pushmataha	OM
Kiamichi River (028)	OKLRED-028	34.18495328	-95.48211183	NW 25-4S-17E	Pushmataha	SCP
Kiamichi River (030)	OKLRED-030	34.65445262	-95.06623632	SE 11-2N-21E	Pushmataha	OM
Little Buffalo Creek	OKLRED-132	34.72558556	-95.24366831	SE 18-3N-20E	Latimer	OM
Little River (020)	OKLRED-020	33.94362674	-94.76453894	14-7S-24E	McCurtain	SCP
Long Creek	OKLRED-016	34.2155062	-95.10414836	SW SE 9-4S-21E	McCurtain	OM
McGee Creek (023)	OKLRED-023	34.52697576	-95.8169902	SE 27-1N-14E	Atoka	OM
McGee Creek (035)	OKLRED-035	34.4080062	-95.84622184	SW 4-2S-14E	Atoka	OM
McGee Creek (051)	OKLRED-051	34.31317666	-95.87550857	NW 7-3S-14E	Atoka	OM
Muddy Boggy Creek (068)	OKLRED-068	34.05924259	-95.79569573	SW 1-6S-14E	Choctaw	SCP
Muddy Boggy Creek (078)	OKLRED-078	33.9726126	-95.69192131	SW 1-7S-15E	Choctaw	SCP
North Boggy Creek	OKLRED-007	34.62819114	-96.00446987	24-2N-12E	Atoka	AV
North Watson Creek	OKLRED-107	34.47337075	-95.06483363	NE 14-1S-21E	Pushmataha	OM
Norwood Creek	OKLRED-004	33.76963154	-94.62091391	NW SW 17-9S-26E	McCurtain	SCP
Rock Creek	OKLRED-033	34.6804793	-96.29745828	SW 31-3N-10E	Coal	AV
Salt Creek	OKLRED-101	34.6088094	-96.16231964	SW SW 28-2N-11E	Coal	AV

Site Name	WBID	Latitude	Longitude	Legal Desc	County	EcoRegion
Sandy Creek (041)	OKLRED-041	34.32280838	-96.36148516	SE 4-3S-9E	Atoka	SCP
Sandy Creek (116)	OKLRED-116	34.25816164	-95.8591634	NW 32-3S-14E	Atoka	SCP
Turkey Creek (037)	OKLRED-037	34.63192174	-96.3897723	NE 19-2N-9E	Coal	AV
Turkey Creek (111)	OKLRED-111	34.64952627	-96.37540477	NE 17-2N-9E	Coal	AV
Unnamed Creek (021)	OKLRED-021	34.70438768	-96.40689703	NE 25-3N-8E	Pontotoc	AV
Unnamed Creek (098)	OKLRED-098	34.50435898	-94.64619342	NE 2-1S-25E	McCurtain	OM
Waterhole Creek	OKLRED-060	33.88547716	-94.94658262	SW 6-8S-23E	McCurtain	SCP
West Fork Glover River (077)	OKLRED-077	34.32475269	-94.94047729	NW 6-3S-23E	McCurtain	OM
West Terrapin Creek	OKLRED-026	34.33100452	-95.07448608	SW 35-2S-21E	Pushmataha	OM

All sampling and analyses performed during this project were conducted under a Quality Assurance Project Plan (QAPP) approved by EPA Region VI and on file at the OCC Water Quality Division, the Oklahoma Secretary of the Environment (OSE), and EPA Region VI in Dallas. The reader is encouraged to obtain and consult the QAPP for specific questions concerning laboratory analytical methods, detection limits, and accuracy and precision limits. All sampling and measurement activities of OCC Water Quality staff followed procedures outlined in the appropriate OCC Standard Operating Procedure (OCC 2010). Water quality chemical analyses were conducted by the Oklahoma Department of Agriculture, Food, and Forestry (ODAFF) laboratory.

2.2 Water Quality Monitoring

Starting in June 2010, 41 sites were monitored for physical and chemical parameters on a fixed interval schedule of ten sampling events per year (five-week intervals) through May 2012 (usually 20 total events per sites). This sampling frequency exceeds state data requirements for beneficial use assessment and meets a sample number necessary to provide a 90% level of confidence for principal water quality data (specifically phosphorus, a critical NPS concern) as determined from EPA's DEFT software. Samples were collected during both base flow and high flow conditions as they occurred on predetermined sampling dates. All sampling and measurement activities followed procedures outlined in the appropriate OCC SOP (OCC 2010).

One water sample was collected per site per 35-day interval in two, new, sample-rinsed HDPE bottles; one was preserved to a pH <2 with H₂SO₄, and both were stored and delivered on ice at 4° C or lower. Quality assurance/control samples were collected in accordance with Data Quality Objectives (DQOs) outlined in the project QAPP. Samples were submitted to the ODAFF Laboratory for analysis of the following parameters: Nitrate (NO₃), nitrite (NO₂), orthophosphate (PO₄), total phosphorus (TP), total Kjeldahl nitrogen (TKN), ammonia (NH₃), chloride (Cl), sulfate (SO₄), total suspended solids (TSS), and total dissolved solids (TDS). An estimate of total nitrogen was calculated by summing the values of nitrate, nitrite, and TKN for each sample. Available nitrogen was calculated by summing the values of ammonia, nitrate, and nitrite. In addition, *in-situ* water quality parameters were measured at each sampling location and include the following: water temperature, dissolved oxygen, pH, conductivity, alkalinity, hardness, turbidity, and instantaneous discharge (flow).

Separate samples were collected and submitted concurrently for analysis of *E. coli* and *Enterococcus* bacteria during the recreational season (May 1 – September 30), ensuring that a minimum of 10 samples were assessed per site over the two-year monitoring period. In addition, site observations of odor, excessive bottom deposits, surface scum, oil/grease, foam and other observations were recorded each time.

Probabilistic sites were visited only twice, once to collect the physical and chemical parameters described above, as well as the bacteria sample, and once to collect biological and habitat data as discussed in later sections below. Data was collected only during base-flow conditions at the probabilistic sites.

All data were compiled and entered into an Access database for later analysis. Upon retrieval, data were proofed and quality assured, and the descriptive statistics were generated for each parameter using the statistical software package *Minitab V. 14*.

2.3 Biological Monitoring

2.3.1 Habitat Assessment

In the summer of 2010, OCC staff began conducting instream and riparian habitat assessments at sites concurrent with fish collections; any sites not sampled in 2010 were sampled in the summer of 2011 (see Appendix B for exact dates). All assessments were conducted in accordance with procedures outlined in the OCC Habitat Assessment SOP (OCC 2009). The OCC's habitat assessment adheres to a modified version of the EPA Rapid Bioassessment Protocols (RBP) (Plafkin et al., 1989) and is designed to assess habitat quality in relation to its ability to support biological communities in the stream. The assessment is based on particular parameters grouped into three categories for a total of eleven components (Plafkin et al., 1989). The eleven components are discussed in more detail below. The three primary categories assessed include micro scale habitat, macro scale habitat, and riparian/bank structure. Micro scale habitat includes substrate makeup, stable cover, canopy, depth, and velocity. Macro scale assesses the channel morphology, sediment deposits, and other parameters. The third category looks at the riparian zone quality, width, and general makeup (trees, shrubs, vines, and grasses) as well as bank features. Bank erosion and streamside vegetative cover are incorporated into this section.

Each stream segment was surveyed for 400 meters upstream or downstream of the starting point (usually a road crossing). Investigators recorded data for the described parameters for 20 stations at 20 meter intervals. Habitat data were entered, metrics were computed, and a “total habitat score” was rendered via Access programming. The total habitat score, which can reach a maximum of 180 points, was calculated based on quantitative weighting given to each of the habitat parameters in relation to their biological significance. Scores were computed for each of the eleven categories, summed, and assigned as an evaluation of that stream section and riparian zone.

OCC's habitat assessment components include:

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- (1) **Instream cover** is the component of habitat that organisms hide behind, within, or under. High quality cover consists of things like submerged logs, cobble and boulders, root wads, and beds of aquatic plants. Cover required by smaller members of the stream community will consist of gravel, cobbles, small woody debris, and dense beds of fine aquatic plants. At least 50% of the stream's area should be occupied by a mixture of stable cover types for this category to be considered optimal.
- (2) **Pool bottom substrate** describes the type of stream bed found in pools. Pools are depositional areas of the stream, and as such, are easily damaged by materials that settle. A loose shifting pool bottom will not provide substrate for burrowing organisms and will not allow bottom-spawning fish to successfully spawn. It will not provide habitat to the smaller vertebrates and invertebrates that are necessary to support many of the pool dwelling fish. At least 80% of all pool bottoms must have stable substrate for a reach to be considered optimal for the habitat component.
- (3) **Pool variability** describes the depth of pools. A healthy, diverse community of aquatic organisms requires both deep and shallow pools. A fairly even mix of pool depths from a few centimeters to 0.5 meters or greater is optimal.
- (4) **Canopy cover** assesses the shading of the stream section. Plants lie at the base of almost all food chains. Since plants require light for growth and survival, a stream that is functioning well needs some amount of light. Moderation is optimal, however, because light is associated with heat, and most aquatic organisms are more stressed by the warmer waters and the lower oxygen solubility and higher metabolic rates that accompany the warming of water.
- (5) The **percent of rocky runs and riffles** is calculated for the fifth component. Rocky runs and riffles offer an unique combination of highly oxygenated, turbulent water, flowing over high quality cover and substrate. Turbulence prevents the formation of nutrient concentration gradients from cell membranes outward so that algae and other plants grow at a much higher rate than they would at the same concentration in pools. More food means more growth. Larger crops of algae are translated into larger invertebrate crops. It is these invertebrates, reared in riffle areas, that feed many of the fish in the stream. Because turbulent water is well oxygenated, there has been no selection pressure for riffle dwelling organisms to develop tolerance to poorly oxygenated waters. These are often the first animals to disappear from the stream if oxygen becomes scarce. The presence of rocky runs and riffles offers habitat for many highly adapted animals that will increase diversity of samples collected from the streams they occupy.
- (6) **Discharge** at representative low flow reflects stream size. Water is the most basic requirement of aquatic organisms. Larger streams tend to have more water, and thus, more varied high quality habitat. Overall habitat quality should rise as streams increase in size and discharge, other factors being equal.
- (7) **Channel alteration** is the seventh category. The presence of newly formed point bars and islands is very significant. Unstable streambeds support fewer types of animals than those that are stable. This is because unstable streambeds tend to have unstable pool bottom substrate, riffle areas whose cobbles are embedded in finer material, and little cover because it is continually being buried. Few or no signs of channel alteration are considered optimal.
- (8) **Channel sinuosity** measures how far a channel deviates from a straight line. More sinuous channels tend to have more undercut banks, root wads, submerged logs, etc. Index of Biotic Integrity (IBI) scores should be higher as channels become more sinuous. Sinuosity is calculated by dividing the

length of the assessment (400 meters) by the distance between the GPS location of the start point and end point of the assessment.

(9) The **bank erosion** index assesses the stability of the stream bank. Stable stream banks tend to increase IBI scores for many reasons. Most importantly, they do not contribute sediment to the stream channel. As a rule, channels with stable banks tend to be deeper and narrower than channels with unstable banks. Because of the increased depth and decreased width, they tend to be cooler and they also tend to grow less algae for a given amount of nutrients than do shallow, wide channels. Overall habitat quality should increase as bank stability increases.

(10) The **vegetative stability of the stream bank** is an important component. Stream banks can be stabilized with a number of materials including rock, concrete, and fabric. Banks that are stabilized with vegetation benefit the aquatic community more than those stabilized with other materials. This is because the vegetation offers several extra advantages beyond that of bank stability. The riparian plants of the stream bank offer a high quality source of food and shade to the aquatic community. Riparian vegetation stabilizes point bars and contributes greatly to structure in the form of root wads and woody debris. Overall habitat quality should improve as bank vegetative stability increases.

(11) The last category is **streamside cover**. A large part of the energy and food input to the stream comes from the terrestrial vegetation along the banks. A mixture of grasses, forbs, shrubs, vines, saplings, and large trees transfer these necessities to the stream more effectively than does any single type of vegetation. Habitat quality should increase as the form of bank vegetation increases in diversity.

2.3.2 Fish

Fish collections were obtained in the summer of 2010 or 2011 for each site. Fish were collected from a 400-meter reach at all sites using a combination of seining and electroshocking according to procedures outlined in OCC SOP (2010). The collection of fish follows a modified version of the EPA Rapid Bioassessment Protocol V (Plafkin et al., 1989) supplemented by other documents. Specific techniques and relative advantages of seining and electrofishing vary considerably according to stream type and conductivity. Depending upon workable habitat, seining was performed first at all sites and was accomplished by use of either 6' X 10' or 6' X 20' seines of ¼ inch mesh equipped with 8' brailes. Electroshocking was undertaken at all sites with suitable conductivities (usually < 1000 µS/cm) and involved the use of a Smith Root LR 24 backpack shocker. For sites possessing long pools too deep to seine or backpack shock, OCC field personnel employed a boat electrofishing unit or a pram unit with a Smith-Root VVP-15B Electrofisher system, both powered by a Honda 5kw generator.

Except for those individuals readily identifiable, fish were placed in 10% formalin upon capture and identified to species by a professional taxonomist. Fish species identified and released in the field were photographed for reference. All fixed fish samples were transferred to ethanol and retained for future reference.

Fish data were compiled and analyzed by site using state biocriteria and methods outlined in the state's *Use Support Assessment Protocols* (OWRB 2012). In addition, each site was assessed using a modified version of Karr's Index of Biotic Integrity (IBI) (adapted from Plafkin et al., 1989). Descriptive statistics were determined for each metric using the *Minitab V 14* software. The condition of the fish community was based on indices of species richness, community quality, trophic structure, and by comparison to

the average scores of high-quality streams in that ecoregion. The modified IBI score was calculated using the following metrics:

- (1) The **total number of fish species** decreases with decreasing water or habitat quality.
- (2) The **number of sensitive benthic species (darters, madtoms, sculpins)** decreases with increasing siltation and increasing benthic oxygen demand. Many of these fish actually live within the cobble and gravel interstices and are very good indicators of conditions that make this environment inhospitable. These species are weak swimmers that do not readily travel up and down a stream, so their presence or absence at a site relates well to both past and present habitat and water quality conditions at that site.
- (3) The **number of sunfish species** decreases with decreasing pool quality and with decreasing cover. Sunfish also require a fairly stable substrate on which to spawn, so their long-term success is also tied to conditions that affect the amount of sediment that enters and leaves the stream.
- (4) The **number of intolerant species** is a characteristic of the fish community that separates high quality from moderate quality sites. A high quality stream will have several members of the fish community that are intolerant to environmental stress. A stream of only moderate quality will have fish that are moderately and highly tolerant of environmental stress. The intolerant species will not be present in the moderate quality stream.
- (5) The **proportion of tolerant individuals** is a characteristic that allows moderate quality streams to be separated from low quality streams. These are opportunistic, tolerant fish that dominate communities that have lost their competitors through loss of habitat or water quality.
- (6) The **proportion of individuals as insectivorous cyprinids** increases as the quality and quantity of the invertebrate food base increases. These are the dominant minnows in North American streams but are replaced by either omnivorous or herbivorous minnows as the quality of the food base deteriorates. Often, as the density of aquatic invertebrates decreases, the standing crop of algae increases. This is because the aquatic invertebrates are the largest group of primary consumers. Fish that can switch their diet to algae or fish that eat only algae will replace fish that cannot adapt to the new conditions.
- (7) The **proportion of individuals as lithophilic spawners** decreases as the quality of the stream decreases. Lithophilic spawners require cobble or gravel in order to spawn; hence, these fish are sensitive to siltation. This metric allows separation of excellent streams from moderate quality streams.

For each of these seven metrics, a score of 5, 3, or 1 was assigned (Table 3), and these scores were summed to get a total IBI score (35 point maximum) for each site. For all “proportion” metrics, the score was based on the actual metric. For all non-proportion metrics, the score was determined by dividing the monitoring site’s metric by the average high quality site metric of the same ecoregion. Each monitoring site’s total score was then compared to the high quality site total score in that ecoregion and given an integrity rating (as established and suggested by the EPA RBP; see Table 4, below). IBI scores that fell between the assessment ranges were classified in the closest scoring group. This score

indicates the quality of the fish community (high scores indicate higher quality) but says nothing about whether any deficiencies are due to degraded water quality or to degraded habitat.

Table 3. Index of Biotic Integrity (IBI) scoring criteria for 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%

Table 4. Index of Biotic Integrity (IBI) score interpretation for fish.

% Comparison to the Reference Score	Integrity Class	Characteristics
97 – 100 %	Excellent	Comparable to pristine conditions, exceptional species assemblage
80 – 87%	Good	Decreased species richness, especially intolerant species
67 – 73%	Fair	Intolerant and sensitive species rare or absent
47 – 57%	Poor	Top carnivores and many expected species absent or rare; omnivores and tolerant species dominant
20 – 37%	Very Poor	Few species and individuals present; tolerant species dominant; diseased fish frequent

2.3.3 Macroinvertebrates

Collection of macroinvertebrates was attempted at all fixed sites for both winter and summer index periods of July 2010 through March 2012 according to procedures outlined in the OCC SOP (2010). A single macroinvertebrate collection was obtained during the summer period for each probabilistic site. Index periods represent seasons of relative community stability that afford opportunity for meaningful site comparisons. For Oklahoma, the summer index occurs from July 1 to September 15; the winter index occurs from January 1 to March 15. In order for macroinvertebrate collections to be obtained, flowing water must be present. Sampling efforts included attempts to procure animals from all available habitats at a site; thus, total effort at a site may entail up to three total samples with one from each of the following habitats: rocky riffles, streamside vegetation, and woody debris.

Collection methods involved sampling each of the habitats similar to methods outlined in the EPA Rapid Bioassessment Protocols (Plafkin et al., 1989). Riffle sampling effort consisted of three, one meter squared kicknet samples in the areas of rocky substrate reflecting the breadth of the velocity regime at a site. Riffles with substrates of bedrock or tight clay were not sampled. Any streamside vegetation in the current that appeared to offer fine structure was sampled by agitation within a #30 mesh dip net for three minutes total agitation time. Any dead wood with or without bark which was in current fast

enough to offer suitable habitat for organisms was sampled by agitation or by scraping/brushing upstream of a #30 mesh dip net for 5 minutes. Woody debris sampled generally ranged in size from $\frac{1}{4}$ " to about 8" in diameter. Each sample type was preserved independently in quart mason jars with ethanol, labeled, and sent to a professional taxonomist for picking and identification.

Data was compiled, collated by year, season, and sample type and entered into a spreadsheet for metric calculations. The six metrics used to assess the macroinvertebrate community include the following:

- (1) The **number of taxa** refers to the total number of taxonomically different types of animals in the sample. As is the case with the fish, this number rises with increasing water and/or habitat quality (Plafkin et al., 1989).
- (2) The **Modified Hilsenhoff Biotic Index (HBI)** is a measure of the invertebrate community's tolerance to organic pollution. It ranges between 0 and 10 with 0 being the most pollution sensitive. The index used in the RBP Manual is based on the pollution tolerance of invertebrates from the upper Midwest. The Index used here is calculated the same way, but used tolerance values of North Carolina invertebrates (Plafkin et al., 1989).
- (3) The **EPT Index** is the number of different taxa from the orders Ephemeroptera, Plecoptera, and Trichoptera, the mayflies, stoneflies, and caddis flies respectively. With few exceptions, these insects are more sensitive to pollution than any other groups. As a stream deteriorates in quality, members of this group will be the first to disappear. This robust metric allows discrimination between all but the worst of streams (Plafkin et al., 1989).
- (4) The **percent EPT** is a measure of how many individuals in the sample are members of the EPT group. This metric helps to separate high quality streams from those of moderately high quality. The highest quality streams will have many individuals of many different taxa of EPT. As conditions deteriorate, animals will begin to die or to drift downstream. At this point, the community will still have many taxa of EPT, but there will be fewer individuals (Plafkin et al., 1989).
- (5) **Percent dominant two taxa** is the percentage of the collection composed of the most common two taxa. As more and more species are excluded by increasing pollution, the remaining species can increase in numbers due to the unused resources left by the excluded animals. This metric helps to separate the high quality streams from those of moderate quality (Plafkin et al., 1989).
- (6) The **Shannon-Weaver Species Diversity Index** measures the evenness of the species distribution. It increases as more and more taxa are found in the collection and as individual taxa become less dominant. The metric increases with increasing biotic quality (Plafkin et al., 1989).

Descriptive statistics of each season-specific sample type (e.g., summer riffle, winter vegetation, summer woody) for each site were determined via *Minitab V. 14* and were compared to the average respective metric of high-quality streams in the ecoregion. A Bioassessment score was calculated similarly to the IBI score for fish. For each site, scores of 6, 4, 2, or 0 were assigned for each metric (according to the criteria in Table 5, below) and then summed to get a total bioassessment score for

each site, with a maximum of 36 points. For taxa richness and EPT taxa richness, the percentages used to assign scores were obtained by dividing each monitoring site metric by the average high quality site metric in a particular ecoregion. For the HBI metric, the high quality site value was divided by the monitoring site value (high quality site metric / monitoring site metric). For the remaining metrics, the score was based on the actual values obtained instead of being relative to the high quality site metric. Each monitoring site's total score was then compared to the average high quality sites' total score (in that ecoregion) and classified according to the condition gradient outlined in Table 6 (adapted from Plafkin et al., 1989).

Table 5. Bioassessment scoring criteria for macroinvertebrates.

Metrics	6	4	2	0
Taxa Richness**	>80%	60-80%	40-60%	<40%
Modified HBI* (**)	>85%	70-85%	50-70%	<50%
EPT/Total***	>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

*Modified HBI Using North Carolina Tolerance Values

**RBP for Use in Streams and Rivers 1989

***Modified by OCC

Table 6. Bioassessment score interpretation for macroinvertebrates.

% Comparison to the Reference Score	Biological Condition	Characteristics
>83%	Non-Impaired	Comparable to the best situation expected within the ecoregion. Balanced trophic and community structure for stream size.
54-79%	Slightly Impaired	Community structure less than expected. Species richness is less than expected due to loss of some intolerant forms. Percent contribution of tolerant forms is increased.
21-50%	Moderately Impaired	Fewer species due to the loss of most intolerant forms. Reduction in EPT index.
<17%	Severely Impaired	Few species present. If high densities of organisms occur, they are dominated by 1 or 2 taxa.

2.4 Watershed Assessment

To investigate potential sources of NPS pollution for streams showing beneficial use impairment, relevant data layers were explored using ArcView Geographic Information System (GIS) software. Data explored included the 2001 USGS National Land Cover Dataset (NLCD), oil and gas wells, confined animal feeding operations, national pollution discharge elimination system permit holders, total retention sites, biosolid land application sites and other data layers. The NLCD was explored to determine percent occurrence of particular landuse types such as bare rock/sand/clay, vegetation (broken into several categories, both natural and agricultural), open water, and residential/commercial/

industrial uses (divided into several categories).

2.5 Beneficial Use Support Assessment

Each fixed site's assigned beneficial uses were evaluated following the protocols outlined in the state's *Continuing Planning Process, Integrated Water Quality Report Listing Methodology* (Oklahoma Department of Environmental Quality, 2012) and per *Oklahoma Administrative Code 785, Chapter 46: Implementation of Oklahoma's Water Quality Standards, Subchapter 15: Use Support Assessment Protocols* (OWRB 2012). Streams were considered non-supporting when Oklahoma Water Quality Standards were violated as determined by criteria and rules listed in these documents. Parameters not addressed in OAC 785:46-15 were assessed using applicable state and federal rules and regulations to determine support status. Assessment results were submitted to the ODEQ for final assimilation in the state's 2012 Integrated Report submitted to EPA Region VI.

3.0 RESULTS AND DISCUSSION

3.1 Water Quality Monitoring

All chemical and physical water quality data collected for the project are included in Appendix A.1; Appendix A.2 contains the bacteria data. Table 7 gives the mean values of all water quality parameters collected in-situ for each fixed site, regardless of elevated or base flow. Instantaneous discharge is recorded in the table as both "flow" (all discharges included) and "base flow" (elevated flows omitted). Table 8 provides the means for all chemical analytes assessed, regardless of flow. Descriptive statistics for water quality parameters are presented by site in Appendix A.3

Table 7. Mean *in-situ* water quality values for Basin Group 5 Fixed Monitoring Sites, 2010-2012.

* = sites with elevated stream stage and no flow; removal of the elevated flow data removed a "0" value, giving a higher base flow.

Site Name	WBID	Water Temp (°C)	DO (mg/L)	DO % Saturation	Alkalinity (CaCO ₃)	Conductivity (µS/cm)	Hardness (mg/L)	pH (SU)	Turbidity (NTU)	Flow (cfs)	Base Flow (cfs)
Beech Creek	OK410210-06-0320G	20.1	8.66	93	19.9	35.8	15.1	6.61	7.08	14.55	9.19
Big Cedar Creek	OK410310-02-0100D	17.6	8.13	82	25.9	56.9	21.1	6.52	13.06	9.43	7.04
Big Eagle Creek	OK410210-06-0160L	19.0	8.10	84	16.7	29.1	14.0	6.21	3.59	24.20	14.51
Billy Creek	OK410310-02-0070C	18.9	6.04	59	33.9	69.9	36.2	6.38	7.68	0.91	* 1.34
Bird Creek	OK410300-01-0100C	21.5	8.20	91	135.3	389.4	169.3	7.78	12.63	55.23	42.74
Black Fork of Little River	OK410210-03-0020C	19.7	7.05	73	21.2	64.3	25.4	6.35	4.30	7.31	7.31
Bokchito Creek	OK410600-01-0090G	17.6	7.80	79	164.8	427.8	250.7	7.58	5.87	0.86	0.86
Buck Creek	OK410310-03-0420C	18.0	7.46	75	41.1	146.9	56.3	7.01	13.69	11.06	5.61
Buffalo Creek	OK410210-06-0020G	20.7	8.99	95	22.0	70.3	18.6	6.70	7.78	13.53	12.05
Caddo Creek	OK410600-01-0140G	18.2	5.94	104	182.9	351.7	265.7	7.42	9.11	1.77	0.87
Caney Boggy Creek	OK410400-06-0120G	19.7	8.13	69	95.6	439.3	168.4	7.31	36.49	5.26	4.78
Caney Creek (lower)	OK410400-02-0200G	16.4	7.01	59	102.7	455.1	227.9	6.93	29.05	1.33	1.33

Site Name	WBID	Water Temp (°C)	DO (mg/L)	DO % Saturation	Alkalinity (CaCO ₃)	Conductivity (µS/cm)	Hardness (mg/L)	pH (SU)	Turbidity (NTU)	Flow (cfs)	Base Flow (cfs)
Caney Creek (upper)	OK410400-03-0020C	18.7	7.90	84	175.6	529.1	222.1	7.85	38.78	3.15	3.13
Cedar Creek	OK410300-03-0020M	19.4	6.49	67	30.6	90.9	31.6	6.60	11.80	8.38	8.38
Cloudy Creek	OK410210-02-0300C	20.3	6.48	68	19.8	104.8	23.6	6.66	6.43	7.04	7.04
Cow Creek	OK410210-06-0350G	18.4	8.29	85	34.6	40.5	27.6	6.26	9.39	9.04	6.62
Cypress Creek	OK410210-01-0070G	21.2	7.22	76	14.4	67.9	18.7	6.76	4.57	1.17	* 1.24
Delaware Creek	OK410400-03-0240M	18.9	7.79	76	201.5	581.6	284.9	8.03	8.73	7.77	3.41
East Fork Glover River	OK410210-09-0010G	19.2	7.57	75	20.7	44.8	13.2	6.57	5.76	15.98	11.56
Goose Creek	OK410400-03-0490G	19.6	10.63	72	178.0	521.4	251.7	8.02	15.47	4.32	3.45
Horse Creek	OK410400-01-0040G	17.7	7.40	76	122.6	404.8	168.5	7.43	9.37	5.05	2.78
Island Bayou	OK410700-00-0040G	17.8	7.86	79	222.8	735.9	314.7	7.58	24.55	18.69	6.64
Leader Creek	OK410400-03-0370B	18.6	7.45	65	107.8	264.9	129.7	7.48	62.94	1.70	1.47
Lick Creek	OK410400-01-0130G	16.4	5.56	57	111.5	317.6	159.5	7.06	60.98	1.60	* 1.75
Little West Blue Creek	OK410600-02-0100C	22.5	9.55	110	317.6	593.0	353.7	7.55	4.63	12.18	12.18
Lukfata Creek	OK410210-07-0010G	19.4	6.45	66	102.2	208.5	138.1	7.24	8.83	8.18	4.09
McGee Creek	OK410400-07-0010C	17.0	9.36	94	24.7	74.2	32.9	7.19	7.72	75.53	21.22
Mineral Bayou	OK410600-01-0300G	19.7	7.22	105	165.3	381.1	210.4	7.84	36.34	2.61	2.61
North Boggy Creek	OK410400-08-0010M	19.7	7.10	74	136.3	1364.7	689.4	7.46	9.14	1.13	1.13
Norwood Creek	OK410100-01-0050H	19.8	5.45	56	95.2	317.1	140.3	7.04	30.66	3.09	* 3.26
One Creek	OK410300-03-0060F	18.6	6.43	65	24.4	89.9	26.7	6.71	24.27	2.53	2.53
Rock Creek (McCurtain)	OK410200-03-0010G	19.3	7.17	73	25.8	60.9	22.1	6.41	13.07	14.58	7.03
Rock Creek (Pushmataha)	OK410300-02-0190G	20.1	5.98	62	24.6	91.8	25.0	6.68	7.02	1.28	1.28
Sand Creek	OK410700-00-0260G	19.1	8.45	88	111.8	383.4	172.6	7.86	12.72	3.88	3.34
Sandy Creek	OK410600-02-0020G	21.8	7.43	83	123.6	303.9	186.3	7.68	10.69	1.41	1.41
Sulphur Creek	OK410600-01-0030G	15.4	6.69	104	147.7	451.1	218.8	7.41	80.15	3.92	1.39
Tenmile Creek	OK410300-03-0270C	17.3	7.75	61	45.3	134.7	56.7	7.06	20.32	7.09	6.12
Terrapin Creek	OK410210-02-0150G	21.6	8.58	96	15.7	58.7	15.5	6.93	5.44	7.27	7.27
Waterhole Creek	OK410100-01-0340D	19.7	5.03	63	198.7	494.8	247.0	7.53	19.13	1.30	1.05
West Fork Glover River	OK410210-08-0010M	20.6	8.00	85	22.0	64.4	18.5	6.86	5.65	11.93	11.20
Whitegrass Creek	OK410400-01-0210G	17.4	6.24	52	106.6	293.5	159.2	7.19	51.24	1.23	* 1.53

Table 8. Mean water quality values for Basin Group 5 Fixed Monitoring Sites, 2010-2012.

Site Name	WBID	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)
Beech Creek	OK410210-06-0320G	1.90	2.48	32.7	0.0218	0.0510	0.0200	0.2540	0.0070	0.0166	10.2
Big Cedar Creek	OK410310-02-0100D	5.05	4.44	55.2	0.0195	0.0375	0.0200	0.3400	0.0053	0.0215	10.0
Big Eagle Creek	OK410210-06-0160L	3.27	2.47	34.5	0.0164	0.1330	0.0200	0.1815	0.0052	0.0103	10.0
Billy Creek	OK410310-02-0070C	4.43	7.28	51.4	0.0218	0.1440	0.0200	0.4070	0.0063	0.0290	10.0
Bird Creek	OK410300-01-0100C	12.26	48.65	248.3	0.0453	0.2795	0.0321	0.6042	0.0079	0.0331	10.8
Black Fork of Little River	OK410210-03-0020C	5.08	4.03	41.5	0.0229	0.1215	0.0200	0.4145	0.0056	0.0412	10.0
Bokchito Creek	OK410600-01-0090G	14.30	53.08	277.8	0.0173	0.2160	0.0210	0.4265	0.0092	0.0358	13.0
Buck Creek	OK410310-03-0420C	12.09	7.13	86.1	0.0206	0.2340	0.0200	0.5480	0.0079	0.0290	10.0
Buffalo Creek	OK410210-06-0020G	3.14	2.91	37.5	0.0259	0.1395	0.0200	0.4345	0.0119	0.0355	10.1
Caddo Creek	OK410600-01-0140G	8.37	20.57	391.9	0.0711	0.2935	0.0220	0.7430	0.0167	0.0460	12.0
Caney Boggy Creek	OK410400-06-0120G	15.02	25.91	192.7	0.0350	0.0995	0.0200	0.7670	0.0212	0.0639	10.9
Caney Creek (lower)	OK410400-02-0200G	79.82	144.54	355.3	0.0978	0.2140	0.0280	0.8775	0.0410	0.0638	15.7
Caney Creek (upper)	OK410400-03-0020C	48.61	27.46	296.2	0.0231	0.1089	0.0221	0.6937	0.0306	0.0654	26.1
Cedar Creek	OK410300-03-0020M	9.30	6.64	67.6	0.0259	0.2630	0.0200	0.5785	0.0117	0.0330	11.2
Cloudy Creek	OK410210-02-0300C	8.80	5.61	65.3	0.0316	0.1335	0.0200	0.5490	0.0064	0.0466	10.0
Cow Creek	OK410210-06-0350G	2.16	2.50	42.0	0.0208	0.0455	0.0200	0.3105	0.0059	0.0173	10.0
Cypress Creek	OK410210-01-0070G	6.29	4.43	51.7	0.0161	0.4865	0.0200	0.4635	0.0053	0.0212	10.0
Delaware Creek	OK410400-03-0240M	62.09	20.55	336.5	0.0499	0.3032	0.0419	0.6247	0.0427	0.0702	10.5
East Fork Glover River	OK410210-09-0010G	3.49	3.23	43.4	0.0279	0.1235	0.0200	0.4011	0.0064	0.0232	10.0
Goose Creek	OK410400-03-0490G	5.39	29.77	244.2	0.0401	0.6873	0.0393	0.7500	0.0523	0.0962	12.8
Horse Creek	OK410400-01-0040G	50.16	35.75	280.8	0.1017	1.9258	0.0237	1.0342	0.1254	0.2879	15.9
Island Bayou	OK410700-00-0040G	72.49	93.44	475.5	0.0486	0.7540	0.0210	0.9345	0.3099	0.3598	20.0
Leader Creek	OK410400-03-0370B	14.64	12.77	204.3	0.0643	0.1505	0.0245	1.1875	0.0707	0.1536	20.0
Lick Creek	OK410400-01-0130G	30.96	23.62	221.7	0.0913	0.3044	0.0294	1.0650	0.0961	0.1113	18.9
Little West Blue Creek	OK410600-02-0100C	3.32	4.88	309.0	0.0198	0.3250	0.0200	0.1300	0.0135	0.0232	10.0
Lukfata Creek	OK410210-07-0010G	7.99	9.08	123.2	0.0554	0.3515	0.0200	0.5595	0.0241	0.0525	10.7
McGee Creek	OK410400-07-0010C	4.53	8.00	52.0	0.0214	0.1335	0.0200	0.3860	0.0060	0.0128	10.0
Mineral Bayou	OK410600-01-0300G	16.99	33.02	244.6	0.0229	0.1445	0.0240	0.4735	0.0177	0.0541	10.5
North Boggy Creek	OK410400-08-0010M	16.79	527.18	890.1	0.0303	0.0540	0.0200	0.5400	0.0387	0.0616	10.0
Norwood Creek	OK410100-01-0050H	52.45	18.95	227.5	0.0528	0.1385	0.0220	0.9870	0.0769	0.1095	10.9
One Creek	OK410300-03-0060F	7.28	6.59	86.7	0.0338	0.1180	0.0235	0.6790	0.0532	0.0968	12.8
Rock Creek (McCurtaun)	OK410200-03-0010G	4.49	3.25	53.1	0.0339	0.3290	0.0200	1.7015	0.0055	0.0255	10.5
Rock Creek (Pushmataha)	OK410300-02-0190G	8.21	6.58	68.2	0.0249	0.2640	0.0200	0.6585	0.0123	0.0423	10.0
Sand Creek	OK410700-00-0260G	40.75	18.68	235.5	0.0560	0.7925	0.0200	0.4150	0.0150	0.0344	11.7
Sandy Creek	OK410600-02-0020G	24.14	28.47	194.5	0.1421	0.3005	0.0200	0.8295	0.0253	0.0675	13.4
Sulphur Creek	OK410600-01-0030G	48.71	25.15	297.6	0.2358	0.3275	0.0200	1.9788	0.0409	0.1359	61.6
Tenmile Creek	OK410300-03-0270C	10.80	9.83	107.3	0.0396	0.4340	0.0290	0.7290	0.0303	0.0593	11.3

Site Name	WBID	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)
Terrapin Creek	OK410210-02-0150G	5.07	4.00	52.0	0.0481	0.1075	0.0205	0.5705	0.0056	0.0450	10.0
Waterhole Creek	OK410100-01-0340D	32.00	26.79	304.2	0.0602	0.2015	0.0225	0.9290	0.0837	0.1377	17.9
West Fork Glover River	OK410210-08-0010M	4.25	3.00	54.5	0.0313	0.2150	0.0200	0.4915	0.0089	0.0295	10.0
Whitegrass Creek	OK410400-01-0210G	26.79	15.72	199.7	0.0521	0.2506	0.0378	0.9972	0.0361	0.0894	27.9

Tables 9 and 10 give the sample values for the Probabilistic sites. Any blank fields are due to equipment malfunction.

Table 9. *In-situ* water quality values for Basin Group 5 Probabilistic Sites, 2010-2012.

Site Name	WBID	Water Temp (°C)	DO (mg/L)	DO % Saturation	Alkalinity (CaCO ₃)	Conductivity (µS/cm)	Hardness (mg/L)	pH (SU)	Turbidity (NTU)	Base Flow (cfs)
Beaver Creek	OKLRED-108	26.3	3.56	44	20.9	291.2	66.5	6.28	8.25	0.86
Big Cedar Creek	OKLRED-011	23.1	6.60	77	10.8	40.8	9.3		12.30	
Blue River (025)	OKLRED-025	23.5	8.65	102	286.0	589.0	328.5	7.79	8.00	83.77
Blue River (034)	OKLRED-034	30.8	6.80	91	227.0	457.5	316.0	8.02	12.35	85.81
Blue River (086)	OKLRED-086	31.2	5.80	78	237.0	468.5	242.0	7.98	23.50	81.76
Bois d' Arc Creek (131)	OKLRED-131	14.7	7.87	78	215.5	381.9	227.0	7.73	5.79	1.78
Bois d' Arc Creek (009)	OKLRED-009	24.8	11.35	136	264.0	539.0		7.49	1.28	0.14
Bois d' Arc Creek (052)	OKLRED-052	25.8	0.72	9	242.5	529.5	227.0	7.22	6.72	0.00
Boktuklo Creek	OKLRED-110	31.2	6.03	82	15.6	233.2	15.9	6.51	2.15	80.09
Brier Creek	OKLRED-057	27.7	4.08	52	240.0	2734.0		7.68	14.20	1.00
Buffalo Creek	OKLRED-059	30.2	5.28	71	16.8	56.9	13.7	6.57	13.50	0.00
Caney Boggy Creek	OKLRED-005	27.2	3.68	47	111.0	465.1		7.17	9.40	
Cedar Creek (046)	OKLRED-046	30.4	5.05	67	25.0	86.1	20.0	6.64	7.65	
Cedar Creek (082)	OKLRED-082	28.4	6.13	77	31.5	82.3	30.9	6.74	3.28	5.09
Chickasaw Creek	OKLRED-019	28.5	5.19	67	29.0	153.1	42.0	6.80	12.95	11.47
Clear Boggy Creek (053)	OKLRED-053	23.4	6.60	72	230.0	482.7	255.0	7.66	9.16	
Clear Boggy Creek (075)	OKLRED-075		5.62	72	250.0	629.0		7.74	12.50	
Clear Boggy Creek (094)	OKLRED-094	30.9	4.71	64	121.0	454.0	92.0	7.54	41.60	
Clear Boggy Creek (097)	OKLRED-097	29.3	4.63	60	258.0	740.0		7.89	24.80	
Colbert Creek	OKLRED-120	21.4	9.10	103	61.0	206.7		7.60	0.57	0.05
Coon Creek	OKLRED-010	24.2	7.48	90	8.4	37.6	7.9	6.22	6.05	
Cucumber Creek (118)	OKLRED-118	25.0	6.93	80	11.7	25.0	8.2	5.99	3.33	0.67
Cypress Creek (072)	OKLRED-072	26.6	5.09	63	29.0	132.6	32.6	5.86	8.65	72.43

Site Name	WBID	Water Temp (°C)	DO (mg/L)	DO % Saturation	Alkalinity (CaCO ₃)	Conductivity (µS/cm)	Hardness (mg/L)	pH (SU)	Turbidity (NTU)	Base Flow (cfs)
Dry Creek (054)	OKLRED-054	28.7	8.23	107	39.0	111.7	36.0	7.67	1.42	0.69
Dry Creek (095)	OKLRED-095	26.5	5.66	70	25.0	85.7	28.0	6.82	3.48	0.25
East Billy Creek	OKLRED-089	28.4	5.54	72	23.9	57.5	14.6	6.48	6.79	0.00
East Fork Glover River	OKLRED-015	24.5	7.00	83	10.7	32.1	7.9	6.43	8.75	6.47
Glover River	OKLRED-048	28.4	5.13	66	27.0	75.8	27.3	6.14	4.39	8.52
Kiamichi River (014)	OKLRED-014	30.0	5.73	76	27.5	55.8	14.0	6.57	8.13	12.29
Kiamichi River (028)	OKLRED-028	32.2	8.18	113	19.6	81.6	22.8	7.53	10.62	0.00
Kiamichi River (030)	OKLRED-030	31.3	4.54	61	32.0	64.7	16.0	6.40	9.57	
Little Buffalo Creek	OKLRED-132	18.3	6.10	65	25.0	94.2		6.94	11.50	0.00
Little River (020)	OKLRED-020	32.0	8.68	68	44.8	315.5	74.6	6.96	8.37	0.00
Long Creek	OKLRED-016	25.2	6.44	78	7.0	48.0	7.0	6.45	29.40	
McGee Creek (023)	OKLRED-023	25.9	5.39	67	19.0	97.9	51.0	6.57	18.05	0.37
McGee Creek (051)	OKLRED-051	27.1	6.72	84	38.5	65.1	18.0	6.78	3.73	19.42
Muddy Boggy Creek (068)	OKLRED-068	26.4	6.53	81	137.0	235.1	129.0	7.09	48.20	
North Boggy Creek	OKLRED-007	27.2	2.08	26	78.0	2587.0		6.98	15.40	0.00
North Watson Creek	OKLRED-107	26.6	3.99	50	22.2	71.0	18.9	6.31	2.31	0.00
Norwood Creek	OKLRED-004	25.0	2.61	32	45.8	91.3	29.6	6.06	16.08	0.00
Rock Creek	OKLRED-033	28.4	2.84	36	191.0	506.0		6.96	12.60	0.10
Salt Creek	OKLRED-101	28.7	3.59	47	136.0	269.2	150.0	6.99	44.20	0.00
Sandy Creek (041)	OKLRED-041	29.4	8.24	11	140.0	414.9	200.0	7.83	4.58	0.68
Sandy Creek (116)	OKLRED-116	18.4	2.67	30	63.5	260.9	64.2	6.72	31.10	0.00
Turkey Creek (037)	OKLRED-037	27.0	7.70	97	86.0	255.7		7.70	53.30	0.09
Turkey Creek (111)	OKLRED-111	23.3	2.18	26	48.0	152.3	62.0	6.79	92.40	
Unnamed Creek (021)	OKLRED-021	25.0	1.75	23	189.0	1923.0		7.21	25.00	0.00
Unnamed Creek (098)	OKLRED-098	26.7	6.02	76	29.9	75.8	24.1	6.61	7.18	0.00
Waterhole Creek	OKLRED-060	25.2	3.23	39	198.5	548.1	221.5	7.04	7.93	0.00
West Fork Glover River (077)	OKLRED-077	29.5	5.23	69	12.8	43.5	10.6	5.92	5.50	0.72
West Terrapin Creek	OKLRED-026	27.1	6.38	80	18.5	41.3	8.0	6.82	5.42	
Probabilistic AVERAGE		26.7	5.6	66.9	91.7	362.3	79.2	7.0	14.6	12.5

Table 10. Water quality values for Basin Group 5 Probabilistic Sites.

Site Name	WBID	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)
Beaver Creek	OKLRED-108	33.40	56.20	226.0	0.9370	10.8700	0.2700	0.9200	0.0580	0.0650	10.0
Blue River (025)	OKLRED-025	3.50	6.20	297.0	0.0150	0.3200	0.0200	0.3500	0.0150	0.0250	10.0
Blue River (034)	OKLRED-034	4.60	6.70	238.0	0.0360	0.1000	0.0200	0.5200	0.0370	0.0460	10.0
Blue River (086)	OKLRED-086	5.10	8.20	253.0	0.0190	0.0200	0.0200	0.5100	0.0290	0.0520	23.0
Bois d' Arc Creek (131)	OKLRED-131	10.30	25.10	300.0	0.0310	0.2300	0.0500	0.3200	0.0640	0.0880	10.0
Bois d' Arc Creek (009)	OKLRED-009	4.80	6.40	301.0	0.0150	0.0200	0.0200	0.2400	0.0270	0.0320	10.0
Bois d' Arc Creek (052)	OKLRED-052	13.10	1.50	282.0	0.0580	0.0200	0.0200	1.3500	0.0100	0.0810	10.0
Boktuklo Creek	OKLRED-110	2.40	1.60	32.0	0.0270	0.0200	0.0200	0.3700	0.0050	0.0090	10.0
Brier Creek	OKLRED-057	290.50	1239.20	2038.0	0.0430	0.0200	0.0200	0.5000	0.0300	0.0530	10.0
Buffalo Creek	OKLRED-059	6.30	2.00	46.0	0.0300	0.0200	0.0200	1.2200	0.0200	0.0860	10.0
Caney Boggy Creek	OKLRED-005	50.50	38.40	247.0	0.0560	0.0200	0.0200	1.1700	0.0110	0.0760	10.0
Cedar Creek (046)	OKLRED-046	7.20	3.40	49.0	0.0290	0.0300	0.0200	0.9000	0.0120	0.0510	10.0
Cedar Creek (082)	OKLRED-082	2.45	4.90	44.5	0.0150	0.0250	0.0200	0.3150	0.0060	0.0150	10.0
Chickasaw Creek	OKLRED-019	10.60	25.20	89.0	0.0410	0.0200	0.0200	0.5300	0.0060	0.0340	10.0
Clear Boggy Creek (053)	OKLRED-053	13.70	25.90	259.0	0.0390	0.9400	0.0200	0.1100	0.0150	0.0360	10.0
Clear Boggy Creek (075)	OKLRED-075	32.50	33.50	349.0	0.0420	0.2300	0.0200	0.2800	0.0300	0.0710	10.0
Clear Boggy Creek (094)	OKLRED-094	20.50	31.30	222.0	0.0240	0.0200	0.0200	1.1300	0.0200	0.0650	18.0
Clear Boggy Creek (097)	OKLRED-097	79.70	20.60	402.0	0.0390	0.1700	0.0200	1.0900	0.0540	0.1060	10.0
Coon Creek	OKLRED-010	2.70	1.30	32.0	0.0150	0.0200	0.0200	0.3100	0.0060	0.0150	10.0
Cucumber Creek (118)	OKLRED-118	2.80	2.30	20.0	0.0150	0.2200	0.0200	0.1500	0.0050	0.0050	10.0
Cypress Creek (072)	OKLRED-072	21.30	10.50	93.0	0.0580	0.0800	0.0200	1.9300	0.0870	0.1240	10.0
Dry Creek (054)	OKLRED-054	4.20	10.20	68.0	0.0200	0.0300	0.0200	0.3300	0.0050	0.0170	10.0
Dry Creek (095)	OKLRED-095	3.00	8.00	59.0	0.0150	0.0600	0.0200	0.3300	0.0050	0.0130	10.0
East Billy Creek	OKLRED-089	3.70	3.10	46.0	0.0380	0.0200	0.0200	0.5300	0.0060	0.0200	10.0
East Fork Glover River	OKLRED-015	2.50	2.30	34.0	0.0150	0.0200	0.0200	0.2600	0.0050	0.0150	10.0
Glover River	OKLRED-048	4.80	3.80	49.0	0.0160	0.0200	0.0200	0.6100	0.0130	0.0290	10.0
Kiamichi River (014)	OKLRED-014	4.20	4.80	41.0	0.0220	0.0200	0.0200	0.6500	0.0120	0.0440	10.0
Kiamichi River (028)	OKLRED-028	6.20	4.30	46.0	0.0150	0.0200	0.0200	0.9400	0.0120	0.0570	10.0
Kiamichi River (030)	OKLRED-030	4.20	2.80	41.0	0.0270	0.0200	0.0200	0.8000	0.0110	0.0480	10.0
Little River (020)	OKLRED-020	58.80	7.70	236.0	0.0330	8.9900	0.0200	1.0200	2.0670	2.1020	10.0
Long Creek	OKLRED-016	3.60	4.70	50.0	0.0190	0.0800	0.0200	0.1100	0.0060	0.0620	10.0
McGee Creek (023)	OKLRED-023	7.00	12.70	93.0	0.0300	0.0900	0.0500	0.1100	0.0110	0.0610	10.0
McGee Creek (051)	OKLRED-051	5.10	9.20	49.0	0.0250	0.0300	0.0200	0.7200	0.0110	0.0160	10.0
Muddy Boggy Creek (068)	OKLRED-068	15.10	11.80	156.0	0.0150	0.1400	0.0200	0.6200	0.0530	0.0630	28.0
North Boggy Creek	OKLRED-007	14.00	19.50	169.0	0.1010	0.0300	0.0200	1.0900	0.0270	0.0360	10.0
North Watson Creek	OKLRED-107	4.50	1.20	39.0	0.0350	0.0200	0.0200	0.5300	0.0050	0.0220	10.0
Norwood Creek	OKLRED-004	12.90	6.00	99.0	0.0990	0.0900	0.0200	1.2500	0.0550	0.0790	10.0

Site Name	WBID	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)
Rock Creek	OKLRED-033	17.10	41.50	279.0	0.0900	0.0400	0.0200	0.7800	0.0080	0.0220	10.0
Salt Creek	OKLRED-101	12.00	21.10	187.0	0.0600	0.0200	0.0200	1.4900	0.0470	0.1050	10.0
Sandy Creek (041)	OKLRED-041	54.10	50.80	228.0	0.0240	0.0200	0.0200	0.7400	0.0050	0.0300	10.0
Sandy Creek (116)	OKLRED-116	46.90	1.70	245.0	0.4670	0.0500	0.0200	2.0600	0.0190	0.1980	38.0
Turkey Creek (037)	OKLRED-037	41.40	1.70	264.0	0.0850	0.0200	0.0200	3.6200	0.0130	0.2250	22.0
Turkey Creek (111)	OKLRED-111	5.80	12.40	157.0	0.0550	0.0300	0.0200	1.4000	0.0270	0.1220	21.0
Unnamed Creek (021)	OKLRED-021	530.90	34.40	981.0	0.1750	0.1500	0.0200	1.1500	0.0510	0.0850	24.0
Unnamed Creek (098)	OKLRED-098	3.90	5.10	62.0	0.0150	0.0500	0.0200	0.9600	0.0200	0.0560	10.0
Waterhole Creek	OKLRED-060	25.50	92.20	431.0	0.0590	0.0500	0.0200	0.7400	0.0230	0.0450	20.0
West Fork Glover River (077)	OKLRED-077	2.60	1.90	40.0	0.0150	0.0200	0.0200	0.7700	0.0100	0.0290	10.0
West Terrapin Creek	OKLRED-026	2.90	2.00	50.0	0.0270	0.0800	0.0200	0.1100	0.0050	0.0220	10.0
Probabilistic AVERAGE		31.56	40.15	208.7	0.0663	0.4922	0.0265	0.7903	0.0641	0.0991	12.4

Of particular significance for discussion, multiple streams in the Lower Red basin exhibited markedly low dissolved oxygen concentrations. Table 11 (below) reflects the DO values¹ and their total percentage with the designated use criteria for each site (refer to OWRB 2012 for standards and assessment protocols). Twenty-seven of the sites are designated as Warm Water Aquatic Communities (WWAC) and have a critical DO level of 5.0 mg/L most of the year (4.0 mg/L from June 16–October 15). Fourteen of the sites are designated as Cool Water Aquatic Communities (CWAC), with a critical DO level of 6.0 mg/L most of the year (5.0 mg/L from June 1–October 15). Only two sites (Little West Blue Creek and McGee Creek) exhibited dissolved oxygen levels which were always above criteria values. Five sites were consistently above the criteria levels: Beech Creek, Big Cedar Creek, Buffalo Creek, Caney Creek (upper), and Terrapin Creek. The 34 sites (83% of the fixed sites) with more than 10% of the samples below the criteria are considered impaired and have been included on the state's pending 2012 303(d) list. Forty-seven percent of the probabilistic sites had DO values (in Table 9) below the WWAC standard.

It is commonly known that systems in the southeastern portion of the state, particularly those in McCurtain, LeFlore, and Pushmataha Counties, naturally tend toward sluggish, organically enriched conditions which promote high biological oxygen demand. These conditions result because few of these systems have a ground water influence, and most are high gradient riffle-pool habitat streams that cease flowing in early summer. Biological communities have developed under these naturally occurring conditions and are well adapted to the significantly lower DO trends. Fish and macroinvertebrate

¹ DO concentration is strongly dependent on time of day. Most ambient monitoring programs (OCC's included) collect DO data during the middle of daylight hours, which results in a bias toward higher means for a site than the true diurnal mean.

collections for many of these sites, which are discussed later, reflect good to excellent community assessment scores. In addition, this region of the state has some of the least developed landscapes, so there are few sources that would be causing the low DO. Because of this and other observations supporting these findings, OCC recommends for state consideration the development of site specific, if not regional, DO criteria that better reflect the naturally occurring low DO conditions that typify systems in this area.

Table 11. Low dissolved oxygen values (based on OAC 785:46-15; OWRB 2012)

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
5%	Beech Creek	OK410210-06-0320G	CWAC	8/29/2011	4.03
5%	Big Cedar Creek	OK410310-02-0100D	WWAC	8/16/2010	4.25
19%	Big Eagle Creek	OK410210-06-0160L	CWAC	6/22/2010	5.99
				8/1/2011	4.00
				8/29/2011	3.57
				10/10/2011	3.64
52%	Billy Creek	OK410310-02-0070C	WWAC	6/7/2010	4.91
				6/21/2010	3.97
				8/16/2010	3.34
				9/20/2010	4.62
				10/25/2010	4.81
				4/4/2011	5.70
				6/20/2011	3.15
				8/1/2011	1.77
				8/29/2011	1.99
				10/10/2011	4.05
				5/7/2012	5.09

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
25%	Bird Creek	OK410300-01-0100C	WWAC	5/16/2011	5.27
				6/21/2011	4.15
				11/15/2011	4.48
				4/3/2012	3.51
				5/8/2012	4.98
48%	Black Fork of Little River	OK410210-03-0020C	CWAC	6/8/2010	4.74
				7/6/2010	3.31
				7/13/2010	4.42
				8/17/2010	3.20
				9/21/2010	5.77
				10/26/2010	5.57
				6/20/2011	3.21
				7/26/2011	3.40
				10/17/2011	3.50
				5/7/2012	5.12
21%	Bokchito Creek	OK410600-01-0090G	WWAC	6/2/2010	5.58
				4/11/2011	5.95
				6/28/2011	4.36
				9/7/2011	4.65

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
21%	Buck Creek	OK410310-03-0420C	WWAC	6/14/2010	5.76
				8/23/2010	4.25
				6/27/2011	4.90
				8/1/2011	3.90
10%	Buffalo Creek	OK410210-06-0020G	CWAC	8/1/2011	5.88
				8/29/2011	4.37
47%	Caddo Creek	OK410600-01-0140G	WWAC	6/14/2010	5.33
				8/10/2010	0.99
				8/23/2010	3.44
				9/27/2010	4.96
				11/1/2010	4.02
				12/13/2010	4.81
				6/28/2011	4.96
				9/7/2011	1.40
				11/29/2011	3.41
				6/7/2010	4.67
				8/16/2010	3.60
33%	Caney Boggy Creek	OK410400-06-0120G	WWAC	7/26/2011	0.79
				8/29/2011	0.95
				10/12/2011	4.64
				5/7/2012	4.21

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
37%	Caney Creek (lower)	OK410400-02-0200G	WWAC	6/14/2010	5.85
				8/3/2010	3.22
				8/23/2010	3.37
				11/1/2010	4.57
				4/11/2011	5.27
				6/28/2011	4.65
				8/1/2011	2.02
6%	Caney Creek (upper)	OK410400-03-0020C	WWAC	4/3/2012	5.65
57%	Cedar Creek	OK410300-03-0020M	CWAC	6/8/2010	4.70
				6/30/2010	3.29
				7/13/2010	4.57
				8/17/2010	4.07
				9/21/2010	5.86
				10/26/2010	4.56
				4/5/2011	6.76
				6/21/2011	4.30
				7/27/2011	3.88
				8/30/2011	4.30

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
48%	Cloudy Creek	OK410210-02-0300C	CWAC	5/27/2010	4.45
				6/8/2010	4.07
				7/13/2010	2.39
				8/17/2010	2.74
				9/21/2010	4.22
				10/26/2010	4.27
				4/5/2011	5.83
				7/26/2011	5.47
				8/30/2011	1.68
				11/14/2011	4.97
19%	Cow Creek	OK410210-06-0350G	CWAC	7/12/2010	4.69
				8/16/2010	5.99
				10/25/2010	4.80
				8/29/2011	3.56
35%	Cypress Creek	OK410210-01-0070G	CWAC	6/7/2010	5.58
				7/7/2010	4.70
				7/12/2010	4.84
				8/16/2010	5.70
				6/21/2011	5.21
				7/27/2011	4.49
				5/8/2012	5.72
22%	Delaware Creek	OK410400-03-0240M	WWAC	8/5/2010	4.23
				8/29/2011	2.88
				10/11/2011	4.66
				5/7/2012	5.89

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
33%	East Fork Glover River	OK410210-09-0010G	CWAC	6/7/2010	5.20
				6/23/2010	4.40
				8/16/2010	5.56
				6/20/2011	5.07
				7/26/2011	3.06
				8/29/2011	3.20
				5/7/2012	5.50
25%	Goose Creek	OK410400-03-0490G	WWAC	8/5/2010	2.25
				8/16/2010	1.38
				6/20/2011	4.68
				5/7/2012	4.49
				6/15/2010	5.14
20%	Horse Creek	OK410400-01-0040G	WWAC	7/20/2010	3.95
				8/24/2010	4.42
				5/17/2011	4.46
				6/15/2010	5.34
16%	Island Bayou	OK410700-00-0040G	WWAC	7/20/2010	4.17
				8/24/2010	2.07
				7/26/2011	0.55
				8/29/2011	2.46
21%	Leader Creek	OK410400-03-0370B	WWAC	10/11/2011	0.33
				5/7/2012	4.58

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)	% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
56%	Lick Creek	OK410400-01-0130G	WWAC	6/15/2010	5.10	21%	Mineral Bayou	OK410600-01-0300G	WWAC	9/21/2010	4.88
				7/20/2010	2.29					6/21/2011	4.52
				9/28/2010	3.61					8/30/2011	3.80
				11/2/2010	3.10					4/3/2012	4.83
				3/8/2011	4.78					6/8/2010	5.43
				4/12/2011	5.70					8/17/2010	4.31
				5/17/2011	3.17					7/27/2011	2.57
				6/1/2011	2.06					8/30/2011	1.89
				6/27/2011	3.96					4/3/2012	5.50
				5/25/2010	5.42					5/8/2012	4.26
62%	Lukfata Creek	OK410210-07-0010G	CWAC	6/8/2010	5.24	48%	Norwood Creek	OK410100-01-0050H	WWAC	7/13/2010	4.66
				7/13/2010	4.57					8/12/2010	3.50
				8/17/2010	3.16					8/17/2010	4.12
				9/21/2010	2.76					9/21/2010	4.04
				10/26/2010	4.42					10/26/2010	2.56
				4/5/2011	6.81					8/2/2011	2.00
				6/20/2011	5.36					8/30/2011	2.21
				8/2/2011	2.80					10/11/2011	3.55
				8/30/2011	1.56					11/15/2011	2.10
				10/11/2011	4.51					5/8/2012	2.24
				11/15/2011	5.98						
				5/8/2012	4.80						

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
43%	One Creek	OK410300-03-0060F	WWAC	6/8/2010	5.18
				7/1/2010	4.18
				7/13/2010	3.94
				8/17/2010	4.62
				10/26/2010	4.60
				6/21/2011	2.99
				7/27/2011	2.69
				8/30/2011	2.90
				11/15/2011	1.84
40%	Rock Creek (McCurtain)	OK410200-03-0010G	CWAC	6/8/2010	4.69
				7/13/2010	4.51
				9/21/2010	3.75
				10/26/2010	4.48
				6/20/2011	5.54
				8/2/2011	2.84
				8/30/2011	2.23
				5/8/2012	5.01

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
52%	Rock Creek (Pushmataha)	OK410300-02-0190G	CWAC	6/7/2010	5.86
				6/29/2010	0.76
				7/13/2010	1.00
				8/17/2010	0.56
				9/21/2010	4.61
				10/26/2010	2.18
				5/17/2011	5.62
				6/20/2011	3.85
				7/26/2011	3.81
				8/30/2011	2.50
16%	Sand Creek	OK410700-00-0260G	WWAC	11/14/2011	4.12
				9/21/2010	4.66
				7/27/2011	4.60
				8/30/2011	2.48
17%	Sandy Creek	OK410600-02-0020G	WWAC	6/20/2011	4.30
				7/26/2011	3.81
				10/11/2011	0.53
				4/12/2011	4.38
40%	Sulphur Creek	OK410600-01-0030G	WWAC	7/20/2010	4.62
				8/24/2010	3.35
				9/28/2010	4.22
				11/2/2010	2.06
				12/14/2010	2.11
				4/12/2011	4.38

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
47%	Tenmile Creek	OK410300-03-0270C	WWAC	6/14/2010	5.67
				7/12/2010	3.82
				8/23/2010	3.14
				9/27/2010	3.55
				11/1/2010	3.22
				4/11/2011	3.43
				5/16/2011	5.20
				6/27/2011	3.70
				8/1/2011	2.92
				7/26/2011	5.66
5%	Terrapin Creek	OK410210-02-0150G	CWAC	6/8/2010	5.54
				6/14/2010	5.54
				7/13/2010	4.55
				8/17/2010	4.11
				9/21/2010	2.71
				10/26/2010	4.01
				4/5/2011	4.67
				8/2/2011	4.49
				8/30/2011	2.27
				11/15/2011	2.99
				12/20/2011	4.49
				5/8/2012	4.08
				7/26/2010	3.33
				8/16/2010	5.95
				7/26/2011	3.86

% Samples with Low DO	Site Name	WBID	FWP	Date	DO (mg/L)
29%	West Fork Glover River	OK410210-08-0010M	CWAC	7/26/2010	3.33
				8/16/2010	5.95
				7/26/2011	3.86
				8/29/2011	3.50
				10/17/2011	4.67
				5/7/2012	6.37
50%	Whitegrass Creek	OK410400-01-0210G	WWAC	6/15/2010	4.36
				7/20/2010	4.44
				8/5/2010	1.30
				8/24/2010	2.94
				9/28/2010	2.27
				11/2/2010	2.48
				4/12/2011	3.20
				5/17/2011	5.28

Table 12 shows the geometric mean of *Enterococcus* and *E. coli* bacteria samples for each site over the two-year monitoring period. Creeks highlighted in yellow are designated Secondary Body Contact Recreation (SBCR), which allows for a higher bacteria concentration: Caney Creek (upper) and Island Bayou. All other sites are designated Primary Body Contact Recreation (PBCR). Most creeks exceeded the geometric mean criterion set for *Enterococcus*, and many exceeded the criterion for *E. coli* as well (see OWRB 2012 for standards and assessment protocols). Only twelve creeks did not exceed either the *E. coli* or *Enterococcus* criteria. To be listed on the state's 303(d) list, the geometric mean must exceed the set criteria for at least one of the bacteria types.

Table 12. Geometric mean of bacteria values for Basin Group 5 fixed monitoring sites, 2010-2012 OCC data. An asterisk (*) indicates that the stream meets state standards for that bacteria type. Many streams are impaired by bacteria, and these streams either will be added to the state 303(d) list, are currently on the 303(d) list, or have been moved to Category 4 for bacteria after a TMDL has been produced. Those highlighted in yellow have a SBCR designation, allowing higher bacteria concentrations.

Site Name	WBID	E coli	Enterococcus	Comments
Beech Creek	OK410210-06-0320G	9.94 *	18.45 *	Geometric Mean
Big Cedar Creek	OK410310-02-0100D	29.27 *	42.44	Geometric Mean
Big Eagle Creek	OK410210-06-0160L	18.35 *	22.10 *	Geometric Mean
Billy Creek	OK410310-02-0070C	82.27 *	28.53 *	Geometric Mean
Bird Creek	OK410300-01-0100C	14.67 *	23.32 *	Geometric Mean
Black Fork of Little River	OK410210-03-0020C	23.51 *	45.46	Geometric Mean
Bokchito Creek	OK410600-01-0090G	57.60 *	50.24	Geometric Mean
Buck Creek	OK410310-03-0420C	32.82 *	26.95 *	Geometric Mean
Buffalo Creek	OK410210-06-0020G	18.90 *	23.54 *	Geometric Mean
Caddo Creek	OK410600-01-0140G	22.95 *	32.65 *	Geometric Mean
Caney Boggy Creek	OK410400-06-0120G	106.29 *	169.43	Geometric Mean
Caney Creek	OK410400-02-0200G	256.00	163.62	Geometric Mean
Caney Creek (upper)	OK410400-03-0020C	105.49 *	279.06	Geometric Mean
Cedar Creek	OK410300-03-0020M	37.24 *	33.96	Geometric Mean
Cloudy Creek	OK410210-02-0300C	14.33 *	25.37 *	Geometric Mean
Cow Creek	OK410210-06-0350G	27.19 *	40.85	Geometric Mean

Site Name	WBID	E coli	Enterococcus	Comments
Cypress Creek	OK410210-01-0070G	10.41 *	7.94 *	Geometric Mean
Delaware Creek	OK410400-03-0240M	60.11 *	100.92	Geometric Mean
East Fork Glover River	OK410210-09-0010G	21.20 *	37.90	Geometric Mean
Goose Creek	OK410400-03-0490G	44.28 *	122.48	Geometric Mean
Horse Creek	OK410400-01-0040G	99.81 *	77.81	Geometric Mean
Island Bayou	OK410700-00-0040G	73.74 *	172.59	Geometric Mean
Leader Creek	OK410400-03-0370B	44.58 *	130.84	Geometric Mean
Lick Creek	OK410400-01-0130G	115.19 *	153.03	Geometric Mean
Little West Blue Creek	OK410600-02-0100C	37.20 *	108.80	Geometric Mean
Lukfata Creek	OK410210-07-0010G	60.03 *	61.14	Geometric Mean
McGee Creek	OK410400-07-0010C	11.16 *	10.60 *	Geometric Mean
Mineral Bayou	OK410600-01-0300G	115.01 *	110.69	Geometric Mean
North Boggy Creek	OK410400-08-0010M	41.59 *	56.56	Geometric Mean
Norwood Creek	OK410100-01-0050H	141.12	167.04	Geometric Mean
One Creek	OK410300-03-0060F	95.61 *	111.51	Geometric Mean
Rock Creek (McCurtain)	OK410200-03-0010G	36.61 *	84.45	Geometric Mean

Site Name	WBID	E coli	Enterococcus	Comments
Rock Creek (Pushmataha)	OK410300-02-0190G	10.87 *	39.14	Geometric Mean
Sand Creek	OK410700-00-0260G	55.12 *	252.96	Geometric Mean
Sandy Creek	OK410600-02-0020G	84.75 *	305.13	Geometric Mean
Sulphur Creek	OK410600-01-0030G	226.49	618.24	Geometric Mean
Tenmile Creek	OK410300-03-0270C	46.49 *	24.62 *	Geometric Mean
Terrapin Creek	OK410210-02-0150G	31.81 *	32.31 *	Geometric Mean

Site Name	WBID	E coli	Enterococcus	Comments
Waterhole Creek	OK410100-01-0340D	42.09 *	122.22	Geometric Mean
West Fork Glover River	OK410210-08-0010M	23.40 *	46.07	Geometric Mean
Whitegrass Creek	OK410400-01-0210G	168.65	186.36	Geometric Mean

Based on a single grab sample at each of the probabilistic sites (results in Table 13, below), the geometric mean of the probabilistic sites is 22.5 colonies per 100 mL for *E. coli* and 56.74 colonies per 100 mL for *Enterococcus*. This indicates that streams in this basin are attaining for *E. coli* bacteria (standard is 126 colonies/100 mL) but are impaired by *Enterococcus* bacteria (standard is 33 colonies/100 mL). It should be noted that all the probabilistic samples were taken at base flow, whereas samples at fixed sites are taken regardless of flow, which could result in higher bacteria levels being observed at the fixed sites.

Table 13. Bacteria values for probabilistic sites.

Site Name	WBID	E coli	Enterococcus	Comments
Beaver Creek	OKLRED-108	515	105	One-time Sample
Blue River	OKLRED-025	< 10 *	130	One-time Sample
Blue River	OKLRED-034	20 *	50	One-time Sample
Blue River	OKLRED-086	40 *	110	One-time Sample
Bois d' Arc Creek	OKLRED-009	30 *	80	One-time Sample
Bois d' Arc Creek	OKLRED-052	40 *	150	One-time Sample

Site Name	WBID	E coli	Enterococcus	Comments
Bois d' Arc Creek	OKLRED-131	105 *	220	One-time Sample
Boktuklo Creek	OKLRED-110	< 5 *	120	One-time Sample
Buffalo Creek	OKLRED-059	5 *	20 *	One-time Sample
Caney Boggy Creek	OKLRED-005	10 *	40	One-time Sample
Cedar Creek	OKLRED-046	< 10 *	< 10 *	One-time Sample
Cedar Creek	OKLRED-082	5 *	< 5 *	One-time Sample

Site Name	WBID	E coli	Enterococcus	Comments
Chickasaw Creek	OKLRED-019	10 *	50	One-time Sample
Clear Boggy Creek	OKLRED-053	450	1200	One-time Sample
Clear Boggy Creek	OKLRED-075	10 *	80	One-time Sample
Clear Boggy Creek	OKLRED-094	< 10 *	< 10 *	One-time Sample
Coon Creek	OKLRED-010	< 10 *	100	One-time Sample
Cucumber Creek	OKLRED-118	10 *	10 *	One-time Sample
Cypress Creek	OKLRED-072	570	470	One-time Sample
Dry Creek	OKLRED-054	130	10 *	One-time Sample
Dry Creek	OKLRED-095	35 *	650	One-time Sample
East Billy Creek	OKLRED-089	5 *	< 5 *	One-time Sample
East Fork Glover River	OKLRED-015	< 10 *	10 *	One-time Sample
Glover River	OKLRED-048	50 *	250	One-time Sample
Kiamichi River	OKLRED-014	10 *	25 *	One-time Sample
Kiamichi River	OKLRED-028	< 10 *	20 *	One-time Sample
Kiamichi River	OKLRED-030	10 *	160	One-time Sample
Little River	OKLRED-020	25 *	25 *	One-time Sample
Long Creek	OKLRED-016	40 *	< 10 *	One-time Sample

Site Name	WBID	E coli	Enterococcus	Comments
McGee Creek	OKLRED-023	20 *	115	One-time Sample
McGee Creek	OKLRED-051	10 *	< 10 *	One-time Sample
Muddy Boggy Creek	OKLRED-068	10 *	80	One-time Sample
North Boggy Creek	OKLRED-007	10 *	< 10 *	One-time Sample
North Watson Creek	OKLRED-107	15 *	20 *	One-time Sample
Norwood Creek	OKLRED-004	60 *	500	One-time Sample
Salt Creek	OKLRED-101	80 *	190	One-time Sample
Sandy Creek	OKLRED-041	10 *	< 10 *	One-time Sample
Sandy Creek	OKLRED-116	< 5 *	10 *	One-time Sample
Turkey Creek	OKLRED-037	40 *	390	One-time Sample
Turkey Creek	OKLRED-111	510	1070	One-time Sample
Unnamed Creek	OKLRED-021	190	730	One-time Sample
Unnamed Creek	OKLRED-098	< 10 *	10 *	One-time Sample
Waterhole Creek	OKLRED-060	60 *	610	One-time Sample
West Fork Glover River	OKLRED-077	< 10 *	60	One-time Sample
West Terrapin Creek	OKLRED-026	< 5 *	70	One-time Sample
Geometric Mean		22.50	56.74	

Select water quality parameters are summarized by box plots in Figures 2 and 3, below. To account for natural differences, sites were collated and analyzed by Level III ecoregions (Woods et al. 2005). Additionally, sites were compared to streams determined to be “high quality” sites in each ecoregion to determine general stream condition. Figure 2 shows interquartile range plots by site for four important nutrients as indicators of pollution: orthophosphorus, total phosphorus, estimated available nitrogen (ammonia plus nitrate/nitrite), and estimated total nitrogen (TKN plus nitrate/nitrite). All elevated flow data were omitted in these analyses in order to standardize the results. The probabilistic samples were composited by ecoregion as if they were samples from a single site in order to show the range and mean of those sites. These values are shown in each boxplot labeled “probabilistic.”

Regarding boxplot composition, the median of each site is shown by a line within the box with most outliers denoted by asterisks. The extreme outliers are denoted by values within a box on the graph. The mean of the high quality stream sites in a particular ecoregion is represented by a solid horizontal line, while dashed lines indicate +/- two standard deviations (representing 95% of the high quality data) for high quality site parameters. In instances where only one dashed line is present, the lower value was below zero or the upper value was above the graph.

Streams in the Arkansas Valley ecoregion tended to exhibit significantly higher nutrient concentrations than the high quality sites (Figure 2). Island Bayou in the East Central Texas Plains ecoregion had high nutrient concentrations relative to most other streams in that region. It also has multiple NPDES permits and is designated secondary body contact recreation. Without reference data for this ecoregion and the Arbuckle Mountains, it is not clear whether these values are significantly high for those areas. North Boggy Creek and Tenmile Creek, in the Ouachita Mountains ecoregion, had high phosphorus and orthophosphorus values relative to the high quality mean. Tenmile Creek also had high total nitrogen values. Horse Creek, in the South Central Plains ecoregion, had significantly high values for all four nutrient parameters; Lick Creek, Whitegrass Creek and the Probabilistic sites had high total nitrogen; Norwood Creek and Waterhole Creek had high orthophosphorus and total nitrogen values. In the South Central Plains (cool water aquatic community), there were only three probabilistic sites with nutrient values. One of the three, Little River (20), showed considerably higher values for all four nutrients.

Figure 2. Select nutrients for each site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dashed line, the lower standard deviation was below zero).

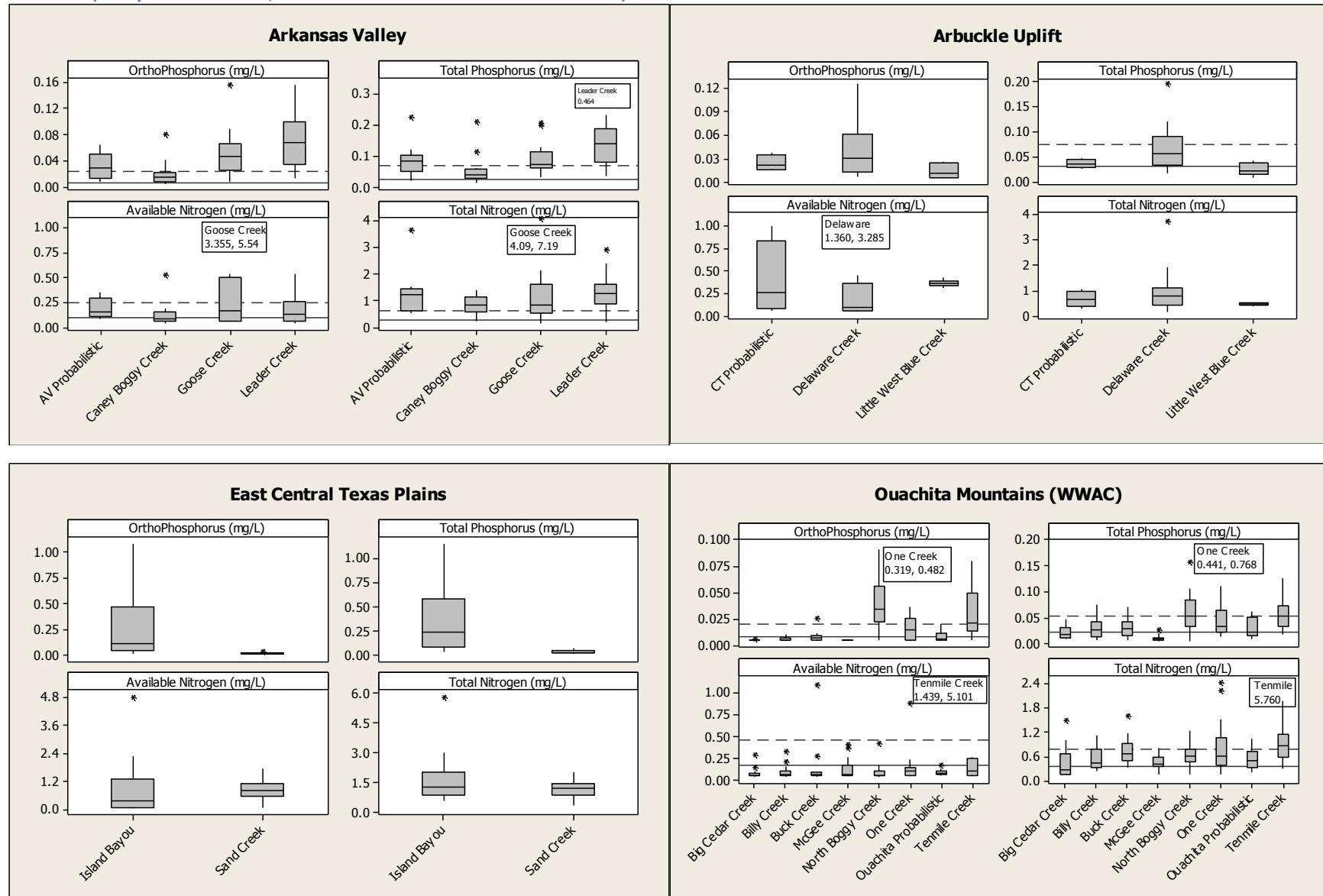


Figure 2 , cont. Select nutrients for each site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dash line, the lower standard deviation was below zero).

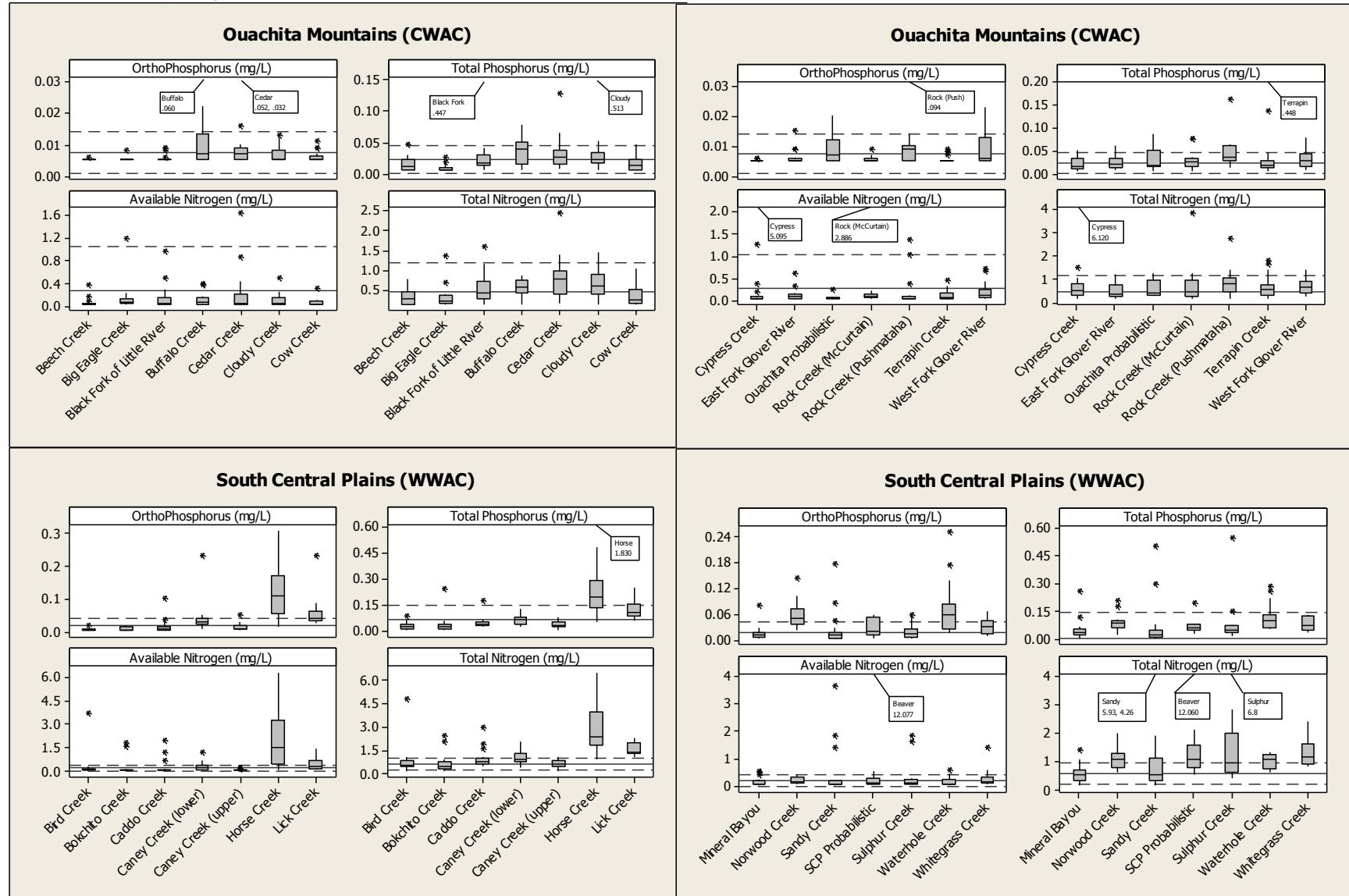


Figure 2 , cont. Select nutrients for each site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dash line, the lower standard deviation was below zero).

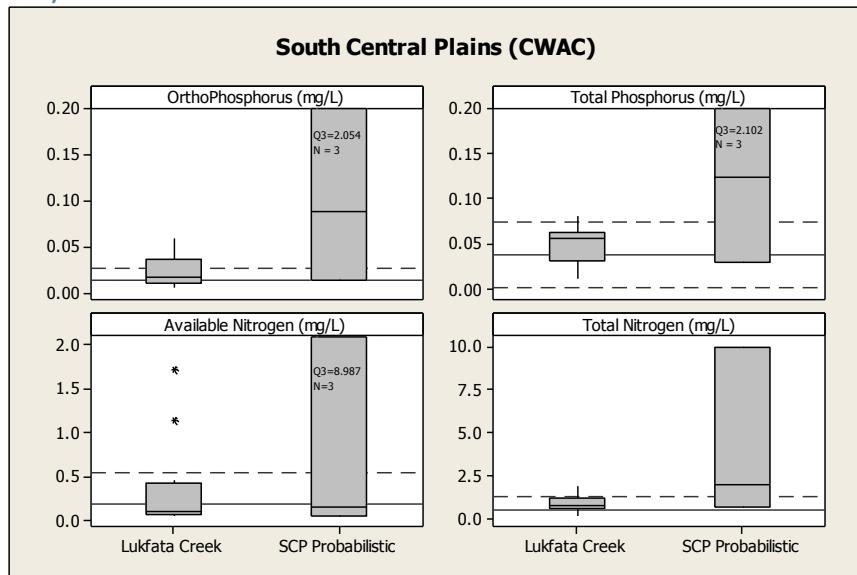


Figure 3 shows interquartile range plots for four physical parameters (all high flow data excluded): dissolved oxygen (percent saturation), pH, turbidity, and total suspended solids. For ecoregions where there is no “high quality” data, a green line indicates 80% saturation, and a red line indicates 50% saturation on the dissolved oxygen % saturation charts. Leader Creek had significantly higher turbidity (primarily inorganic) than the high quality sites in the Arkansas Valley ecoregion, and the median turbidity value of Lick Creek was higher (primarily organic) than the high quality range in the South Central Plains ecoregion. Other streams fell within the high quality range for the other parameters. These findings will be discussed further at the end of this report.

Figure 3. Select physical parameters by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dash line, the lower standard deviation was below zero). In ecoregions with no high quality data, a green line indicates 80% and a red line indicates 50% DO saturation.

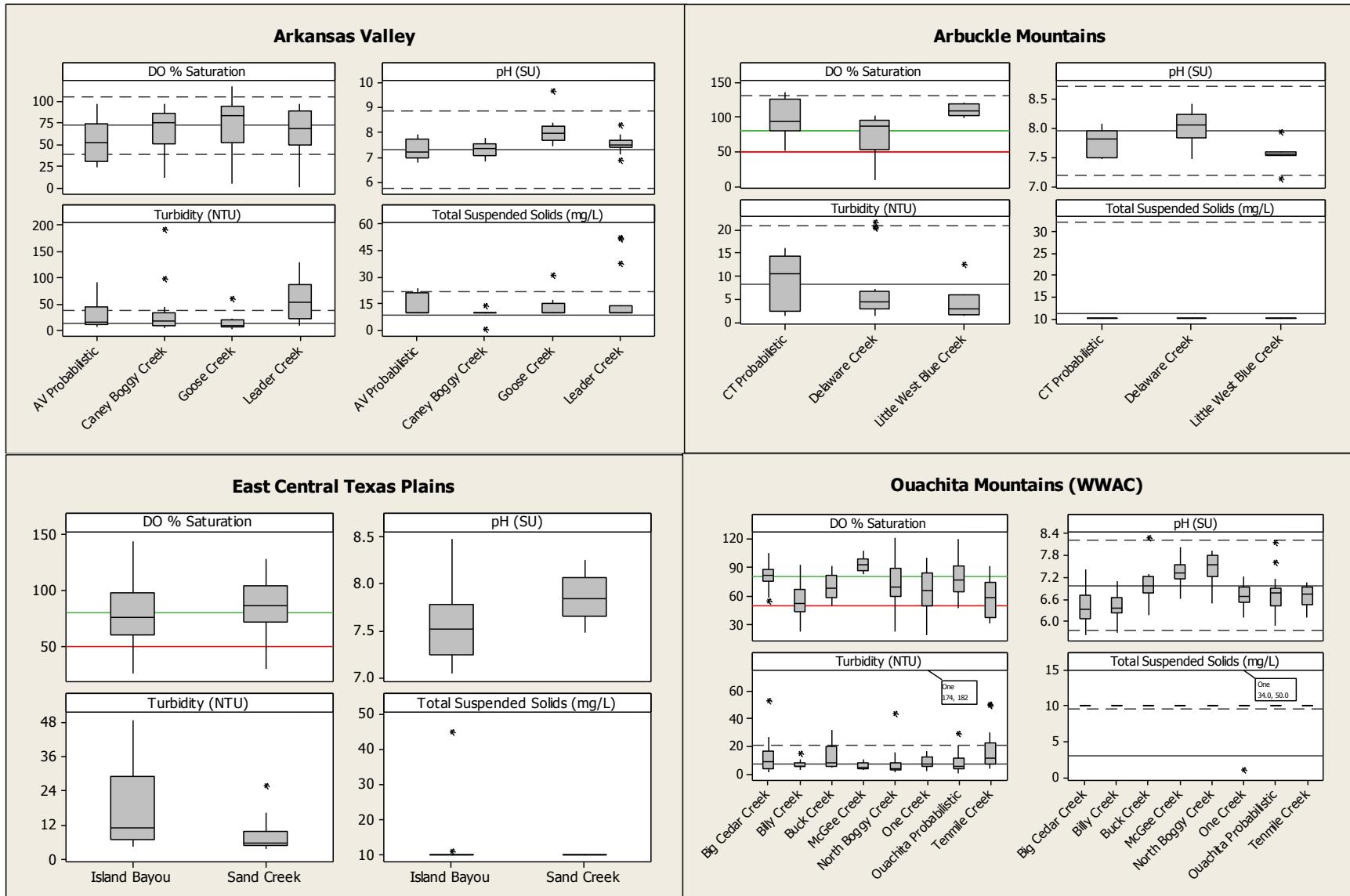


Figure 3 , cont. Select parameters by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dash line, the lower standard deviation was below zero). In ecoregions with no high quality data, a green line indicates 80% and a red line indicates 50% DO saturation.

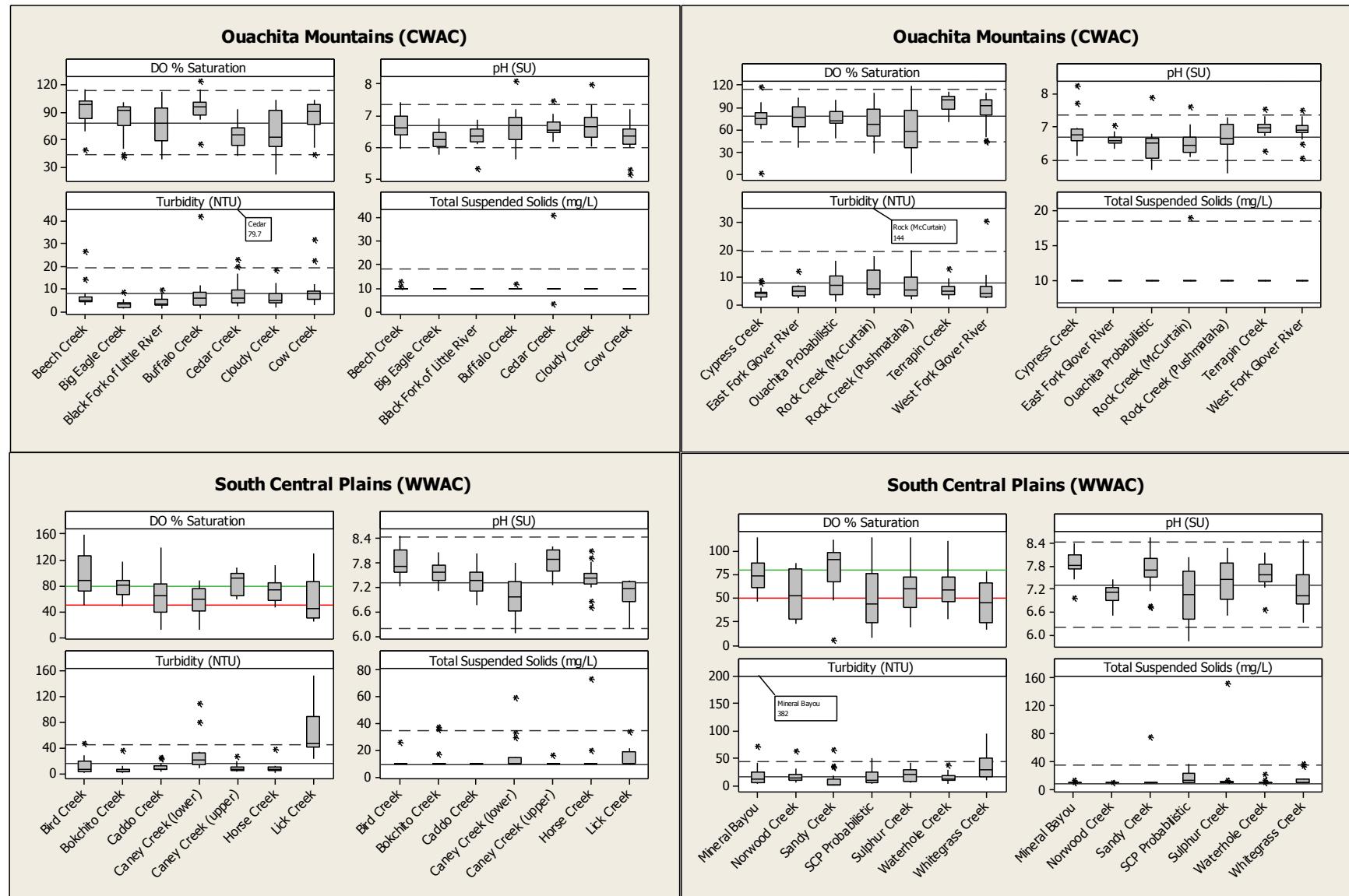


Figure 3, cont. Select parameters by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations (if only one dash line, the lower standard deviation was below zero).

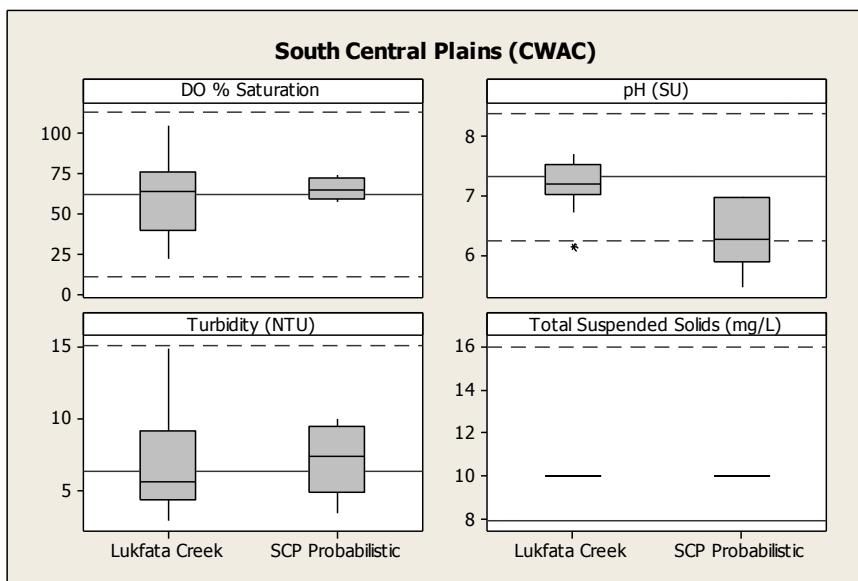


Table 14 shows a comparison between base flow water quality data (high flow data omitted) collected for the same site in the previous rotating basin cycle and the second cycle in order to examine whether water conditions have improved, worsened, or remained the same at a particular site. One-way ANOVAs were performed for each set of data. Only statistically significant differences between the means of each parameter are shown in the table. Level of significance is indicated by p-values, with any $p < 0.050$ considered significant and $0.050 < p < 0.100$ considered marginally significant.

Three streams were not monitored in cycle 1: Big Sandy Creek, East Cache Creek (Upper), and North Elm Creek. Two streams had significantly higher levels of dissolved oxygen (DO), but four streams had reduced DO. Ammonia was increased in nine streams and other forms of nitrogen were significantly increased in 24 streams. Eleven streams showed significant decreases in nitrogen. Phosphorus decreased in eleven streams and increased in only two streams. Turbidity and/or total suspended solids (TSS) was significantly lower in eleven streams and higher in two streams; alkalinity and/or hardness was significantly higher in 15 streams and reduced in six streams; 20 streams exhibited increased salt concentrations (sulfate, chloride, or total dissolved solids) while twelve show lower salt concentrations.

Table 14. Statistical comparisons of cycle one and cycle two Rotating Basin Project water quality data. "N" is the number of base flow samples included in the analyses. P values of <0.05 are statistically significant, and p values <0.10 are marginally significant.

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Beech Creek	OK410210-06-0320G	OrthoPhosphorus	2005-2007	20	0.0093	0.0065	0.012	decreased
			2010-2012	17	0.0051	0.0002	*	
		Total Phosphorus	2005-2007	20	0.0258	0.0131	0.013	decreased
			2010-2012	17	0.0151	0.0117	*	

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Big Cedar Creek	OK410310-02-0100D	Ammonia	2005-2007	18	0.0154	0.0019	0.046	increased
			2010-2012	13	0.0205	0.0102	*	
		TKN	2005-2007	18	0.1872	0.1616	0.067	increased
			2010-2012	17	0.3741	0.3846		
		pH	2005-2007	19	7.1153	0.8716	0.004	decreased
			2010-2012	18	6.3939	0.4997		
		OrthoPhosphorus	2005-2007	18	0.0088	0.0045	0.002	decreased
			2010-2012	17	0.0051	0.0002		
		Total Phosphorus	2005-2007	18	0.0332	0.0148	0.018	decreased
			2010-2012	17	0.0218	0.0122		
Big Eagle Creek	OK410210-06-0160L	Alkalinity	2005-2007	17	10.4100	4.8900	0.083	increased
			2010-2012	17	19.1900	19.6300		
		pH	2005-2007	16	6.7731	0.7484	0.010	decreased
			2010-2012	17	6.2324	0.3001		
		OrthoPhosphorus	2005-2007	16	0.0076	0.0043	0.034	decreased
			2010-2012	16	0.0052	0.0008		
		Total Phosphorus	2005-2007	16	0.0236	0.0096	0.000	decreased
			2010-2012	16	0.0086	0.0061		
Billy Creek	OK410310-02-0070C	Hardness	2005-2007	17	25.9100	12.6300	0.061	increased
			2010-2012	16	41.1300	29.5000		
		pH	2005-2007	18	7.3956	1.0266	0.001	decreased
			2010-2012	16	6.3869	0.3990		
		OrthoPhosphorus	2005-2007	17	0.0105	0.0068	0.024	decreased
			2010-2012	15	0.0062	0.0017		
		Turbidity	2005-2007	18	9.9000	5.5440	0.038	decreased
			2010-2012	16	6.6030	2.7010		
Bird Creek	OK410300-01-0100C	OrthoPhosphorus	2005-2007	15	0.0138	0.0093	0.009	decreased
			2010-2012	15	0.0067	0.0034		
		Total Phosphorus	2005-2007	15	0.0789	0.1005	0.067	decreased
			2010-2012	15	0.0284	0.0220		
		TSS	2005-2007	15	30.1300	33.6400	0.038	decreased
			2010-2012	15	11.0700	4.1300		
		Turbidity	2005-2007	16	31.9100	31.3700	0.029	decreased
			2010-2012	16	12.4600	12.6800		

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Black Fork of Little River	OK410210-03-0020C	TKN	2005-2007	18	0.2089	0.1457	0.007	increased
			2010-2012	20	0.4145	0.2716	*	
		pH	2005-2007	19	6.6379	0.1610	0.001	decreased
			2010-2012	21	6.3457	0.3331	*	
		OrthoPhosphorus	2005-2007	18	0.0070	0.0030	0.071	decreased
			2010-2012	20	0.0056	0.0014		
		DO % Saturation	2005-2007	18	66.7300	21.2600	0.091	increased
			2010-2012	18	78.1100	17.8500		
		TKN	2005-2007	18	0.2056	0.2184	0.005	increased
			2010-2012	19	0.4189	0.2171	*	
Bokchito Creek	OK410600-01-0090G	pH	2005-2007	19	7.3195	0.3318	0.013	increased
			2010-2012	20	7.5675	0.2604	*	
		Alkalinity	2005-2007	17	33.8600	12.3900	0.029	increased
			2010-2012	15	49.7300	25.3800	*	
		Ammonia	2005-2007	16	0.0150	0.0000	0.025	increased
			2010-2012	13	0.0219	0.0117	*	
		Hardness	2005-2007	16	28.8000	6.6900	0.056	increased
			2010-2012	14	44.3400	30.3600		
		TKN	2005-2007	16	0.1819	0.0966	0.000	increased
			2010-2012	14	0.6164	0.2292	*	
Buck Creek	OK410300-03-0420C	Turbidity	2005-2007	17	5.5210	3.8670	0.008	increased
			2010-2012	15	12.1920	8.8620	*	
		Flow	2005-2007	12	2.2650	2.8220	0.093	increased
			2010-2012	13	5.6110	6.0150		
		Ammonia	2005-2007	20	0.0152	0.0009	0.004	increased
			2010-2012	13	0.0278	0.0181	*	
		TKN	2005-2007	20	0.2790	0.2324	0.016	increased
			2010-2012	16	0.4750	0.2308	*	
Caddo Creek	OK410600-01-0140G	Alkalinity	2005-2007	17	127.2400	50.5500	0.003	increased
			2010-2012	19	184.3400	57.5100	*	
		Hardness	2005-2007	16	152.0500	39.1500	0.003	increased
			2010-2012	18	260.7200	128.8400	*	
		TKN	2005-2007	16	0.3775	0.2202	0.000	increased
			2010-2012	18	0.7533	0.2720	*	

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Caney Boggy Creek	OK410400-06-0120G	Alkalinity	2005-2007	20	62.6900	42.3400	0.009	increased
			2010-2012	19	98.9500	39.7800	*	
		Chloride	2005-2007	20	11.6800	3.9850	0.006	increased
			2010-2012	17	16.0410	5.1460	*	
		Hardness	2005-2007	20	81.8000	32.7000	0.000	increased
			2010-2012	18	169.0000	95.0900	*	
		TDS	2005-2007	20	154.4500	35.7800	0.003	increased
			2010-2012	17	194.5900	41.0300	*	
		TSS	2005-2007	20	19.8500	15.7700	0.010	decreased
			2010-2012	18	9.6700	2.5700	*	
Caney Creek (lower)	OK410400-02-0200G	Alkalinity	2005-2007	19	76.6300	45.6800	0.099	increased
			2010-2012	19	109.2100	70.3600		
		Chloride	2005-2007	18	40.1900	34.5800	0.099	increased
			2010-2012	18	86.2200	109.9200		
		Hardness	2005-2007	18	129.0000	76.9000	0.013	increased
			2010-2012	18	240.9000	164.0000	*	
		TKN	2005-2007	18	0.6128	0.2797	0.029	increased
			2010-2012	18	0.8567	0.3572	*	
		TDS	2005-2007	18	243.4000	126.3000	0.099	increased
			2010-2012	18	369.9000	290.3000		
		TSS	2005-2007	18	49.1700	78.2800	0.086	decreased
			2010-2012	18	16.0600	12.9400		
Caney Creek (upper)	OK410400-03-0020C	Ammonia	2005-2007	17	0.0150	0.0014	0.003	increased
			2010-2012	14	0.0237	0.0111	*	
		TKN	2005-2007	17	0.3465	0.2719	0.015	increased
			2010-2012	17	0.5788	0.2524	*	
		OrthoPhosphorus	2005-2007	17	0.0315	0.0321	0.057	decreased
			2010-2012	17	0.0151	0.0120		
		Total Phosphorus	2005-2007	17	0.0577	0.0357	0.057	decreased
			2010-2012	17	0.0377	0.0217		
Cedar Creek	OK410300-03-0020M	TKN	2005-2007	18	0.2794	0.2413	0.003	increased
			2010-2012	19	0.5879	0.3306	*	
		pH	2005-2007	19	6.8653	0.2109	0.004	decreased
			2010-2012	20	6.6105	0.2965	*	

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Cloudy Creek	OK410210-02-0300C	Ammonia	2005-2007	17	0.0185	0.0085	0.027	increased
			2010-2012	15	0.0327	0.0236	*	
		TKN	2005-2007	17	0.2812	0.2115	0.005	increased
			2010-2012	19	0.5679	0.3351	*	
Cow Creek	OK410210-06-0350G	Ammonia	2005-2007	20	0.0153	0.0011	0.038	increased
			2010-2012	14	0.0216	0.0131	*	
		TKN	2005-2007	20	0.1785	0.1236	0.028	increased
			2010-2012	18	0.3300	0.2659	*	
		OrthoPhosphorus	2005-2007	20	0.0096	0.0059	0.018	decreased
			2010-2012	18	0.0060	0.0018	*	
		Total Phosphorus	2005-2007	20	0.0324	0.0228	0.008	decreased
			2010-2012	18	0.0158	0.0111	*	
Cypress Creek	OK410210-01-0070G	Ammonia	2005-2007	20	0.0150	0.0005	0.050	increased
			2010-2012	14	0.0163	0.0029		
		TKN	2005-2007	20	0.2370	0.1471	0.008	increased
			2010-2012	18	0.4533	0.3057	*	
		OrthoPhosphorus	2005-2007	20	0.0063	0.0019	0.015	decreased
			2010-2012	18	0.0051	0.0003	*	
		Turbidity	2005-2007	21	6.7020	5.9620	0.077	decreased
			2010-2012	19	4.1020	1.8900		
Delaware Creek	OK410400-03-0240M	Chloride	2005-2007	17	36.9800	24.5300	0.047	increased
			2010-2012	16	64.9900	49.9400	*	
		TKN	2005-2007	17	0.2618	0.1779	0.002	increased
			2010-2012	16	0.6181	0.4063	*	
East Fork Glover River	OK410210-09-0010G	Chloride	2005-2007	20	3.0550	0.7022	0.092	increased
			2010-2012	17	3.5941	1.1675		
		DO % Saturation	2005-2007	21	84.5100	16.6600	0.061	decreased
			2010-2012	18	73.0300	20.4500		
		TKN	2005-2007	20	0.2145	0.1719	0.021	increased
			2010-2012	17	0.4101	0.3103	*	
		pH	2005-2007	21	6.7495	0.1585	0.004	decreased
			2010-2012	18	6.5822	0.1778	*	
		OrthoPhosphorus	2005-2007	20	0.0091	0.0037	0.012	decreased
			2010-2012	17	0.0062	0.0026	*	
		Turbidity	2005-2007	21	7.3610	3.7240	0.030	decreased
			2010-2012	18	5.0280	2.4700	*	

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Goose Creek	OK410400-03-0490G	Chloride	2005-2007	17	3.9350	1.4440	0.027	increased
			2010-2012	13	5.6380	2.5270	*	
		Hardness	2005-2007	17	173.9000	48.0000	0.038	increased
			2010-2012	14	260.6000	156.3000	*	
		TKN	2005-2007	17	0.2347	0.0903	0.000	increased
			2010-2012	13	0.7631	0.5292	*	
		pH	2005-2007	17	7.7129	0.4114	0.077	increased
			2010-2012	14	8.0264	0.5414		
		TDS	2005-2007	17	205.1800	49.1700	0.089	increased
			2010-2012	13	254.0800	100.2700		
Horse Creek	OK410400-01-0040G	Alkalinity	2005-2007	20	100.7300	20.5200	0.041	increased
			2010-2012	20	125.2000	47.5900	*	
		Hardness	2005-2007	19	132.7100	30.3900	0.015	increased
			2010-2012	19	168.7900	53.7100	*	
		Nitrite	2005-2007	19	0.0368	0.0320	0.046	decreased
			2010-2012	18	0.0211	0.0047	*	
		TKN	2005-2007	19	0.5089	0.2193	0.001	increased
			2010-2012	18	1.0372	0.5639	*	
		OrthoPhosphorus	2005-2007	19	0.4303	0.2505	0.000	decreased
			2010-2012	18	0.1248	0.0828	*	
Island Bayou	OK410700-00-0040G	Total Phosphorus	2005-2007	19	0.4955	0.2722	0.078	decreased
			2010-2012	18	0.2923	0.3995		
		Alkalinity	2005-2007	21	172.7000	106.0000	0.076	increased
			2010-2012	17	234.9000	101.8000		
		Nitrate	2005-2007	20	0.2700	0.3835	0.063	increased
			2010-2012	16	0.8369	1.2489		
		Nitrite	2005-2007	20	0.0310	0.0229	0.064	decreased
			2010-2012	16	0.0200	0.0000		
		TKN	2005-2007	20	0.6235	0.4078	0.023	increased
			2010-2012	16	0.8856	0.1853	*	
		TSS	2005-2007	20	39.7500	58.9500	0.074	decreased
			2010-2012	16	12.2500	8.7400		

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Leader Creek	OK410400-03-0370B	Hardness	2005-2007	16	86.4500	26.0200	0.041	increased
			2010-2012	16	144.3100	104.9600	*	
		TKN	2005-2007	16	0.4963	0.3110	0.001	increased
			2010-2012	15	1.2147	0.6854	*	
		TSS	2005-2007	16	40.2500	29.7500	0.011	decreased
			2010-2012	16	17.6300	15.2600	*	
		Turbidity	2005-2007	17	84.2600	34.0900	0.036	decreased
			2010-2012	17	56.6900	38.9900	*	
Lick Creek	OK410400-01-0130G	Hardness	2005-2007	12	106.2300	33.3100	0.009	increased
			2010-2012	11	193.0900	98.9200	*	
		Nitrate	2005-2007	12	0.0992	0.1140	0.085	increased
			2010-2012	10	0.3850	0.5349		
		TKN	2005-2007	12	0.6325	0.2430	0.002	increased
			2010-2012	10	1.2010	0.4671	*	
Little West Blue Creek	OK410600-02-0100C	Water Temp	2005-2007	20	18.8450	3.9620	0.053	increased
			2010-2012	5	22.5400	1.0060		
		Ammonia	2005-2007	19	0.0148	0.0007	0.001	increased
			2010-2012	6	0.0198	0.0060	*	
		TKN	2005-2007	19	0.1147	0.0150	0.076	increased
			2010-2012	6	0.1300	0.0245		
		Flow	2005-2007	18	4.3370	2.6710	0.001	increased
			2010-2012	6	12.1810	8.0020	*	
Lukfata Creek	OK410210-07-0010G	Ammonia	2005-2007	20	0.0249	0.0310	0.071	increased
			2010-2012	12	0.0623	0.0804		
		Chloride	2005-2007	20	5.5250	1.7420	0.000	increased
			2010-2012	15	8.6800	2.0230	*	
		Hardness	2005-2007	20	92.0400	11.7500	0.002	increased
			2010-2012	14	147.0500	73.2800	*	
		TKN	2005-2007	20	0.3705	0.4082	0.068	increased
			2010-2012	15	0.6167	0.3428		
		OrthoPhosphorus	2005-2007	20	0.0135	0.0068	0.026	increased
			2010-2012	15	0.0226	0.0157	*	

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
McGee Creek	OK410400-07-0010C	Chloride	2005-2007	13	6.2310	2.0700	0.016	decreased
			2010-2012	16	4.4750	1.6160	*	
		Conductivity	2005-2007	13	6.2310	2.0700	0.016	decreased
			2010-2012	16	4.4750	1.6160	*	
		DO % Saturation	2005-2007	14	87.4360	9.8880	0.089	increased
			2010-2012	14	93.2640	7.3630		
		TKN	2005-2007	13	0.2123	0.1553	0.012	increased
			2010-2012	16	0.3463	0.1112	*	
		OrthoPhosphorus	2005-2007	13	0.0122	0.0148	0.060	decreased
			2010-2012	16	0.0050	0.0000		
		Total Phosphorus	2005-2007	13	0.0229	0.0229	0.044	decreased
			2010-2012	16	0.0103	0.0062		
Mineral Bayou	OK410600-01-0300G	Alkalinity	2005-2007	20	114.4800	34.5100	0.001	increased
			2010-2012	20	165.5500	55.0200		
		Conductivity	2005-2007	20	314.5000	69.3000	0.035	increased
			2010-2012	19	385.8000	126.8000		
		DO	2005-2007	21	8.5680	2.6160	0.083	decreased
			2010-2012	18	7.0790	2.5760		
		Hardness	2005-2007	20	135.3600	29.9700	0.001	increased
			2010-2012	19	213.7900	90.4700		
		Nitrate	2005-2007	20	0.2045	0.1748	0.078	decreased
			2010-2012	19	0.1116	0.1427		
		TDS	2005-2007	20	198.8500	38.0200	0.011	increased
			2010-2012	19	249.6800	75.6900		
		TSS	2005-2007	20	32.0500	45.5500	0.044	decreased
			2010-2012	19	10.2100	0.7100		
North Boggy Creek	OK410400-08-0010M	Alkalinity	2005-2007	19	100.9600	25.6500	0.016	increased
			2010-2012	20	141.9500	66.2500		
		TKN	2005-2007	19	0.2526	0.2281	0.001	increased
			2010-2012	19	0.5468	0.2741		
Norwood Creek	OK410100-01-0050H	TKN	2005-2007	18	0.6311	0.4326	0.029	increased
			2010-2012	16	0.9225	0.2853		
		Flow	2005-2007	19	0.7300	1.3010	0.003	increased
			2010-2012	18	3.2620	3.2580		

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
One Creek	OK410300-03-0060F	Alkalinity	2005-2007	19	47.4900	39.8600	0.028	decreased
			2010-2012	20	25.2100	17.3200	*	
		Ammonia	2005-2007	18	0.0167	0.0073	0.005	increased
			2010-2012	15	0.0349	0.0241	*	
		Chloride	2005-2007	18	9.8220	5.4020	0.096	decreased
			2010-2012	19	7.4000	2.9240		
		Hardness	2005-2007	18	45.0100	31.3100	0.030	decreased
			2010-2012	19	27.4700	12.5400	*	
		TKN	2005-2007	18	0.2972	0.2207	0.005	increased
			2010-2012	19	0.7011	0.5273	*	
Rock Creek (McCurtain)	OK410200-03-0010G	pH	2005-2007	19	7.0821	0.4356	0.003	decreased
			2010-2012	20	6.7135	0.2805	*	
		Ammonia	2005-2007	19	0.0167	0.0067	0.001	increased
			2010-2012	14	0.0366	0.0218	*	
		DO % Saturation	2005-2007	20	82.1800	23.1400	0.061	decreased
			2010-2012	16	67.4600	22.0500		
Rock Creek (Pushmataha)	OK410300-02-0190G	TKN	2005-2007	19	0.3053	0.2255	0.040	increased
			2010-2012	15	0.5380	0.4001	*	
		OrthoPhosphorus	2005-2007	19	0.0077	0.0040	0.057	decreased
			2010-2012	15	0.0056	0.0011		
		Alkalinity	2005-2007	19	37.7900	16.2200	0.020	decreased
			2010-2012	20	25.6400	14.8900	*	
		Conductivity	2005-2007	19	118.6600	50.5900	0.055	decreased
			2010-2012	20	92.9100	27.8600		
		Hardness	2005-2007	18	33.8110	10.9660	0.011	decreased
			2010-2012	20	25.2900	8.4850	*	
		TKN	2005-2007	18	0.2539	0.1286	0.000	increased
			2010-2012	19	0.6768	0.3746	*	
		pH	2005-2007	19	6.9026	0.2617	0.038	decreased
			2010-2012	20	6.6545	0.4330	*	
		Total Phosphorus	2005-2007	18	0.0306	0.0105	0.094	increased
			2010-2012	19	0.0441	0.0318		

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Sand Creek	OK410700-00-0260G	Alkalinity	2005-2007	18	96.1000	19.6200	0.006	increased
			2010-2012	19	113.9500	17.0700	*	
		Chloride	2005-2007	18	25.1100	11.5400	0.000	increased
			2010-2012	19	41.6100	9.1300	*	
		Conductivity	2005-2007	19	299.7200	46.6400	0.000	increased
			2010-2012	19	389.9800	55.0600	*	
		Hardness	2005-2007	18	103.3700	16.0000	0.007	increased
			2010-2012	20	176.3500	107.4300	*	
		OrthoPhosphorus	2005-2007	18	0.0293	0.0359	0.037	decreased
			2010-2012	19	0.0111	0.0073	*	
Sandy Creek	OK410600-02-0020G	TKN	2005-2007	17	0.1747	0.0785	0.044	increased
			2010-2012	19	0.8295	1.2894	*	
Sulphur Creek	OK410600-01-0030G	Alkalinity	2005-2007	18	113.4300	42.6000	0.034	increased
			2010-2012	14	154.2400	61.1600	*	
		Hardness	2005-2007	17	155.3200	56.1900	0.015	increased
			2010-2012	13	233.5500	106.6700	*	
		TKN	2005-2007	17	0.5840	0.4500	0.073	increased
			2010-2012	13	1.3850	1.7050		
Tenmile Creek	OK410300-03-0270C	Ammonia	2005-2007	17	0.0155	0.0019	0.009	increased
			2010-2012	15	0.0379	0.0331	*	
		DO	2005-2007	19	4.4620	2.8680	0.084	increased
			2010-2012	16	7.6740	7.2380		
		DO % Saturation	2005-2007	19	44.2900	23.5100	0.084	increased
			2010-2012	16	57.7000	20.4300		
		TKN	2005-2007	17	0.2800	0.1489	0.000	increased
			2010-2012	16	0.7275	0.2376	*	
		Total Nitrogen	2005-2007	17	0.5112	0.4682	0.043	increased
			2010-2012	16	1.2088	1.2755	*	
		OrthoPhosphorus	2005-2007	17	0.0199	0.0100	0.098	increased
			2010-2012	16	0.0301	0.0223		
		Total Phosphorus	2005-2007	17	0.0422	0.0130	0.051	increased
			2010-2012	16	0.0572	0.0275		
		Turbidity	2005-2007	18	9.9100	7.2600	0.064	increased
			2010-2012	17	17.2400	14.4400		

Site Name	WBID	Parameter	Cycle	N	Mean	Standard Deviation	p value	Comments
Terrapin Creek	OK410210-02-0150G	Ammonia	2005-2007	20	0.0157	0.0034	0.009	increased
			2010-2012	15	0.0503	0.0559	*	
		TKN	2005-2007	20	0.2705	0.2225	0.009	increased
			2010-2012	19	0.5921	0.4672	*	
Waterhole Creek	OK410100-01-0340D	Alkalinity	2005-2007	20	148.0500	48.0700	0.004	increased
			2010-2012	17	213.5900	80.7400	*	
		Ammonia	2005-2007	19	0.0190	0.0126	0.089	increased
			2010-2012	13	0.0612	0.1046		
		Conductivity	2005-2007	20	434.5000	149.9000	0.097	increased
			2010-2012	17	529.9000	189.8000		
		DO % Saturation	2005-2007	21	47.5100	20.8700	0.062	increased
			2010-2012	17	61.2200	22.9000		
		Hardness	2005-2007	19	180.5600	52.1400	0.004	increased
			2010-2012	17	264.1200	106.0900	*	
		TKN	2005-2007	19	0.4879	0.3701	0.000	increased
			2010-2012	16	0.9144	0.2370	*	
		Total Nitrogen	2005-2007	19	0.4879	0.3701	0.000	increased
			2010-2012	16	0.9144	0.2370	*	
		pH	2005-2007	19	7.1337	0.7725	0.036	increased
			2010-2012	17	7.5794	0.3472	*	
		TDS	2005-2007	19	246.4700	93.7400	0.022	increased
			2010-2012	16	315.8100	73.6500	*	
West Fork Glover River	OK410210-08-0010M	Ammonia	2005-2007	20	0.0191	0.0122	0.018	increased
			2010-2012	15	0.0323	0.0192	*	
		Chloride	2005-2007	20	3.6300	0.9540	0.095	increased
			2010-2012	18	4.3330	1.5340		
		TKN	2005-2007	20	0.2440	0.2005	0.001	increased
			2010-2012	18	0.5228	0.2912	*	
		TDS	2005-2007	20	32.7000	22.0100	0.005	increased
			2010-2012	18	56.4400	26.8900	*	
Whitegrass Creek	OK410400-01-0210G	Alkalinity	2005-2007	21	79.9500	41.4500	0.007	increased
			2010-2012	12	125.0000	46.9200	*	
		Ammonia	2005-2007	20	0.0260	0.0241	0.070	increased
			2010-2012	10	0.0585	0.0704		
		Hardness	2005-2007	20	97.9800	49.7500	0.001	increased
			2010-2012	12	177.1700	65.6000	*	
		TKN	2005-2007	20	0.5360	0.3955	0.001	increased
			2010-2012	11	1.0555	0.3569	*	

3.2 Biological Monitoring

3.2.1 Habitat Assessment

Total habitat scores for each site and computed metric scores are listed below (Table 15). Buck and Cloudy Creeks had the highest habitat scores, while Sandy Creek had the lowest habitat score. Table 16 presents the habitat scores for the probabilistic sites.

Table 15. Habitat assessment metric values for fixed monitoring sites in the Rotating Basin Group 5, Cycle 2.

Site Name	WBID	Instream Cover	Pool Bottom Substrate	Pool Variability	Canopy Cover Shading	Presence of Rocky Runs or Riffles	Flow	Channel Alteration	Channel Sinuosity	Bank Stability	Bank Vegetation Stability	Streamsides Cover	Total Points
Beech Creek	OK410210-06-0320G	14	12	18	6.2	10	20	5.8	0.9	9.4	3.8	10	110
Big Cedar Creek	OK410310-02-0100D	15	15	20	13	12	11	7.7	0.2	9.3	6.6	10	119
Big Eagle Creek	OK410210-06-0160L	16	14	17	16	12	13	1.8	0.2	7.7	5.7	10	114
Billy Creek	OK410310-02-0070C	18	14	19	20	0	0	15	-0.1	8.1	5.9	9.9	110
Bird Creek	OK410300-01-0100C	1.1	4.4	20	6.5	4.1	20	8.7	4.1	8.4	1.1	10	88
Black Fork of Little River	OK410210-03-0020C	15	12	15	17	0	0.7	15	1.2	8.9	6.3	9.1	101
Bokchito Creek	OK410600-01-0090G	18	12	17	20	7.5	13	0.5	4.8	8.2	5.3	9.7	115
Buck Creek	OK410310-03-0420C	14	15	15	14	15	18	14	1.6	10	6.7	9.9	133
Buffalo Creek	OK410210-06-0020G	19	18	17	16	11	12	5.8	0.2	10	8.3	9.7	126
Caddo Creek	OK410600-01-0140G	13	4.6	19	20	0	0	17	2.4	10	7	9.7	102
Caney Boggy Creek	OK410400-06-0120G	17	3.1	15	19	7.5	18	5.8	6	7.4	5.1	10	114
Caney Creek (lower)	OK410400-02-0200G	15	5.4	16	18	4.1	0.5	1.8	3.2	6.1	3.5	9.9	82.8
Caney Creek (upper)	OK410400-03-0020C	7.3	2.1	0	18	2.2	0	0.4	3.2	6.3	4.2	9.5	53.4
Cedar Creek	OK410300-03-0020M	14	17	20	15	10	4.5	17	2.4	10	4.2	9.7	124
Cloudy Creek	OK410210-02-0300C	19	19	14	4	16	16	17	1.3	10	7.7	10	133
Cow Creek	OK410210-06-0350G	15	15	14	15	16	18	5.8	0.5	8.5	7	10	125
Cypress Creek	OK410210-01-0070G	16	13	13	19	2.2	0.5	12	4.5	9.9	7.2	9.3	108
Delaware Creek	OK410400-03-0240M	11	2.7	19	19	5.9	5.7	1.4	5.1	4.9	3.5	9.6	88.6
East Fork of Glover River	OK410210-09-0010G	18	9.8	19	17	7.5	6.6	14	0	7.9	6.5	9.7	116
Goose Creek	OK410400-03-0490G	17	8.9	1.1	19	0	0	0.4	4.7	5.2	3.2	10	69.8
Horse Creek	OK410400-01-0040G	1.8	1.7	18	19	2.2	11	14	3.5	9.2	1.3	9.7	90.1
Island Bayou	OK410700-00-0040G	1.5	2.1	13	5.2	2.2	4	17	2.7	9.9	6.2	10	73.5
Leader Creek	OK410400-03-0370B	11	1.2	18	20	0	4	1.8	4.7	6.5	3.6	9.6	79.6
Lick Creek	OK410400-01-0130G	1.2	2.2	15	20	0	1.5	8.7	6.7	8.6	2.9	4	70.7
Little West Blue Creek	OK410600-02-0100C	16	13	15	13	15	20	8.7	4.2	6	5.8	10	126
Lukfata Creek	OK410210-07-0010G	12	13	13	19	9	18	6.7	0.5	4.7	4.1	7.8	108
Mineral Bayou	OK410600-01-0300G	9.2	3.8	11	20	2.2	0	0.5	4	8.3	4.1	9.7	72.7

Site Name	WBID	Instream Cover	Pool Bottom Substrate	Pool Variability	Canopy Cover Shading	Presence of Rocky Runs or Riffles	Flow	Channel Alteration	Channel Sinuosity	Bank Stability	Bank Vegetation Stability	Streamsides Cover	Total Points
North Boggy Creek	OK410400-08-0010M	20	13	18	20	5.9	0	2.3	2.4	8.2	6.6	9.7	106
Norwood Creek	OK410100-01-0050H	3.2	2.6	20	19	0	7.3	7.7	0.6	5	4.8	9.6	80.4
One Creek	OK410300-03-0060F	2.7	13	18	19	9	1.7	15	3.2	9.9	6.3	10	108
Rock Creek (McCurtain)	OK410200-03-0010G	15	11	15	15	15	20	8.7	0.7	9.7	5.7	9.5	125
Rock Creek (Pushmataha)	OK410300-02-0190G	6.4	13	15	15	0	0	17	0	7.3	6.4	10	89.3
Sand Creek	OK410700-00-0260G	9.5	8.4	20	13	13	8.9	1.4	0.9	5	6	10	96.6
Sandy Creek	OK410600-02-0020G	1.6	0.4	0	17	0	11	0.4	0.9	5	6.1	9.7	52.3
Sulphur Creek	OK410600-01-0030G	9.8	1.8	20	19	2.2	3.3	0.5	8.3	6	5	9.5	85.4
Tenmile Creek	OK410300-03-0270C	5.8	4.5	15	19	10	18	14	1.7	10	4.4	9.7	112
Terrapin Creek	OK410210-02-0150G	17	17	15	1.4	15	19	15	2.1	10	5.4	10	126
Waterhole Creek	OK410100-01-0340D	3.4	6	20	18	2.2	3.4	6.7	0	5.3	4.4	7.2	77
West Fork Glover River	OK410210-08-0010M	19	17	8.3	14	12	3.7	11	0.1	9.6	7.9	10	113
Whitegrass Creek	OK410400-01-0210G	3.5	6.1	17	18	0	0	4.2	0.4	2.6	3.1	7	61.5

Table 16. Habitat assessment metric values for probabilistic monitoring sites in the Rotating Basin Group 5, Cycle 2.

Site Name	WBID	Instream Cover	Pool Bottom Substrate	Pool Variability	Canopy Cover Shading	Presence of Rocky Runs or Riffles	Flow	Channel Alteration	Channel Sinuosity	Bank Stability	Bank Vegetation Stability	Streamsides Cover	Total Points
Beaver Creek	OKLRED-108	3.5	3.5	16	19	0	4.3	7.7	3.2	3.7	2.3	7.8	71.4
Big Cedar Creek	OKLRED-011	17	17	3.5	16	14	0	9.9	1.4	3.2	2.5	6.8	90.7
Blue River (025)	OKLRED-025	14	15	15	18	16	20	12	2.2	7	5.5	10	135
Blue River (034)	OKLRED-034	8.3	4.7	15	12	11	20	7.7	7.2	8	6.5	6.6	107
Blue River (086)	OKLRED-086	8.2	4.7	15	7.2	5.9	20	5.8	0.9	5.5	3	6.8	82.6
Bois d Arc Creek (131)	OKLRED-131	7.3	11	17	17	16	8.9	15	0.8	8.2	6.9	10	118
Bois d' Arc Creek (009)	OKLRED-009	16	11	5	15	15	0.7	0.4	4.7	4.7	5	10	88.2
Bois d' Arc Creek (052)	OKLRED-052	1	0.4	20	20	0	0	2.8	6.5	4.6	0.1	10	65.2
Boktuklo Creek	OKLRED-110	18	18	19	9.1	11	20	5	2.5	7.9	6.9	10	128

Site Name	WBID	Instream Cover	Pool Bottom Substrate	Pool Variability	Canopy Cover Shading	Presence of Rocky Runs or Riffles	Flow	Channel Alteration	Channel Sinuosity	Bank Stability	Bank Vegetation Stability	Streamside Cover	Total Points
Brier Creek	OKLRED-057	6	12	18	18	0	5	1	6.2	3.1	5.7	10	84.5
Buffalo Creek	OKLRED-059	9.6	17	15	5.5	0	0	11	0.1	10	5.7	8.7	82.6
Caney Boggy Creek	OKLRED-005	9.2	7.4	18	5.1	0	0	2.8	3	3.5	6	9.9	64.8
Cedar Creek (046)	OKLRED-046	17	17	14	1.2	15	0	17	0.4	10	6.7	10	107
Cedar Creek (082)	OKLRED-082	14	16	18	12	12	18	2.8	0.2	6.3	6.7	8.9	115
Chickasaw Creek	OKLRED-019	8.8	12	17	16	2.2	17	12	0.2	10	7.1	10	113
Clear Boggy Creek (053)	OKLRED-053	18	9.1	19	20	4.1	0	2.3	9.5	6.8	5.1	9.3	103
Clear Boggy Creek (075)	OKLRED-075	2.8	3.3	14	7.2	5.9	0	0.7	6.7	2.4	4	9.6	56.9
Clear Boggy Creek (094)	OKLRED-094	4	2.2	15	17	0	0	17	4.3	6.4	0.1	9.7	75.2
Clear Boggy Creek (097)	OKLRED-097	4.9	3.4	13	7.3	2.2	0	4.2	12	0	1.8	9.2	58
Colbert Creek	OKLRED-120	8.8	10	5	16	0	0.2	11	0.2	9.8	6.3	9.7	77.3
Coon Creek	OKLRED-010	14	16	18	14	8.7	0	15	0.7	8.3	7.2	9.9	113
Cucumber Creek (118)	OKLRED-118	19	17	6.8	3.2	15	3.4	17	1.1	8	0.4	10	100.9
Cypress Creek (072)	OKLRED-072	14	15	16	17	12	20	0.5	4	7	4.7	7.2	117
Dry Creek (054)	OKLRED-054	1.9	8.4	6.1	7.5	15	3.4	17	2.6	10	4.8	10	85.9
Dry Creek (095)	OKLRED-095	3.5	17	0	9.5	0	1.2	0.7	2.4	10	6.6	10	61.1
East Billy Creek	OKLRED-089	17	13	2.6	19	5.9	0	14	0.8	9.5	7.6	9.9	98.7
East Fork Glover River	OKLRED-015	16	18	13	8.1	10	17	9.9	0.8	9.5	7.9	10	121
Glover River	OKLRED-048	12	14	15	15	10	16	1.8	0.2	8.9	5.3	8.9	107
Kiamichi River (014)	OKLRED-014	18	17	18	4.2	16	19	17	1.8	10	6.6	10	138
Kiamichi River (028)	OKLRED-028	3	4.5	15	3.8	0	0	17	0.2	8.5	4.6	7.6	63.3
Little Buffalo Creek	OKLRED-132	11	17	17	16	0	0	4.2	1.7	7.1	6.2	9.1	88.5
Little River (020)	OKLRED-020	2.5	5	15	7.7	0	0	12	2.8	6.9	4.5	9.2	65.5
McGee Creek (023)	OKLRED-023	4	14	20	14	12	1.9	8.7	0.6	8.9	3	10	97.2
McGee Creek (051)	OKLRED-051	19	18	19	3.6	16	17	17	1.5	10	4.9	9.2	135
North Boggy Creek	OKLRED-007	6.3	6	15	12	0	0	2.8	2.4	4.2	4.5	10	63.3
North Watson Creek	OKLRED-107	19	18	0	20	12	0	1.4	1.4	7.6	7.1	10	96.3
Norwood Creek	OKLRED-004	1.1	1.7	17	19	0	0	7.7	4.8	8.5	3.9	10	73.6
Rock Creek	OKLRED-033	4.6	3.7	16	14	0	0.5	5	2.4	3.5	6.7	10	66
Salt Creek	OKLRED-101	1.3	1.1	0	20	2.2	0	9.9	5.4	8.1	4.9	9.6	62.2
Sandy Creek (041)	OKLRED-041	3.9	6.6	1.8	19	4.1	3.4	0.4	2.4	9.9	6.7	10	68.4
Sandy Creek (116)	OKLRED-116	1.4	1.7	19	19	0	0	5.8	4	10	9.6	9.9	80.3
Turkey Creek (037)	OKLRED-037	7.2	3.2	1.1	20	0	0.4	0.4	3.7	0	4	10	49.7

Site Name	WBID	Instream Cover	Pool Bottom Substrate	Pool Variability	Canopy Cover Shading	Presence of Rocky Runs or Riffles	Flow	Channel Alteration	Channel Sinuosity	Bank Stability	Bank Vegetation Stability	Streamside Cover	Total Points
Turkey Creek (111)	OKLRED-111	1.7	2.1	3.8	20	4.1	0	11	1.6	9.2	2.5	10	66.1
Unnamed Creek (021)	OKLRED-021	4.7	1.5	3.5	14	0	0	0.4	6.2	0.6	4.2	10	45.5
Unnamed Creek (098)	OKLRED-098	15	17	6.1	19	10	0	4.2	0.2	8.3	7.1	10	96.9
Waterhole Creek	OKLRED-060	4.1	9.1	0	17	5.9	0	3.5	0.2	4.2	3.2	7.8	54.9
West Fork Glover River (077)	OKLRED-077	18	14	20	11	10	3.6	12	0.3	9.8	8.3	9.7	117
West Terrapin Creek	OKLRED-026	18	19	6.8	20	15	0	17	1.2	10	9.8	10	125

Sites were compared relative to the mean total habitat score of high quality sites in the respective ecoregion and a range determined by +/- two standard deviations (Figure 4), with the exception of the ECTP ecoregion, which has no high quality sites determined at this time due to inadequate site representation. Sites with scores that are within +/- two standard deviations of the mean of the high quality sites do not necessarily have “reference” conditions; rather, sites outside of these values have either extremely good or extremely poor conditions which merit further investigation. Low habitat scores could be the result of anthropogenic activities, could be naturally occurring, or could indicate an unrepresentative reach. During the monitoring period Oklahoma experienced a severe drought which most likely resulted in lower habitat scores. Parameters like pool variability and flow would be particularly affected by lack of water or low water conditions.

Fixed sites (Figure 4): All of the sites in the Arkansas Valley and Arbuckle Uplift ecoregions were within two standard deviations of the high quality sites. Most of the warm water sites in the Ouachita Mountain ecoregion were below the high quality value; only Big Cedar Creek was within two standard deviations of the high quality mean, but Buck Creek had a significantly higher habitat score than the average high quality sites. The cool water sites in the OM ecoregion had only 2 of 13 sites which fell significantly below the average high quality sites; 6 of the 13 sites were significantly better than the high quality average. Similarly, in the South Central Plains ecoregion, only 6 of the 14 sites were within the high quality range, with the others being below. The sites in the East Central Texas Plains are plotted for information, but without high quality reference conditions, there is nothing to compare against.

Figure 4. Total habitat score for each fixed site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.

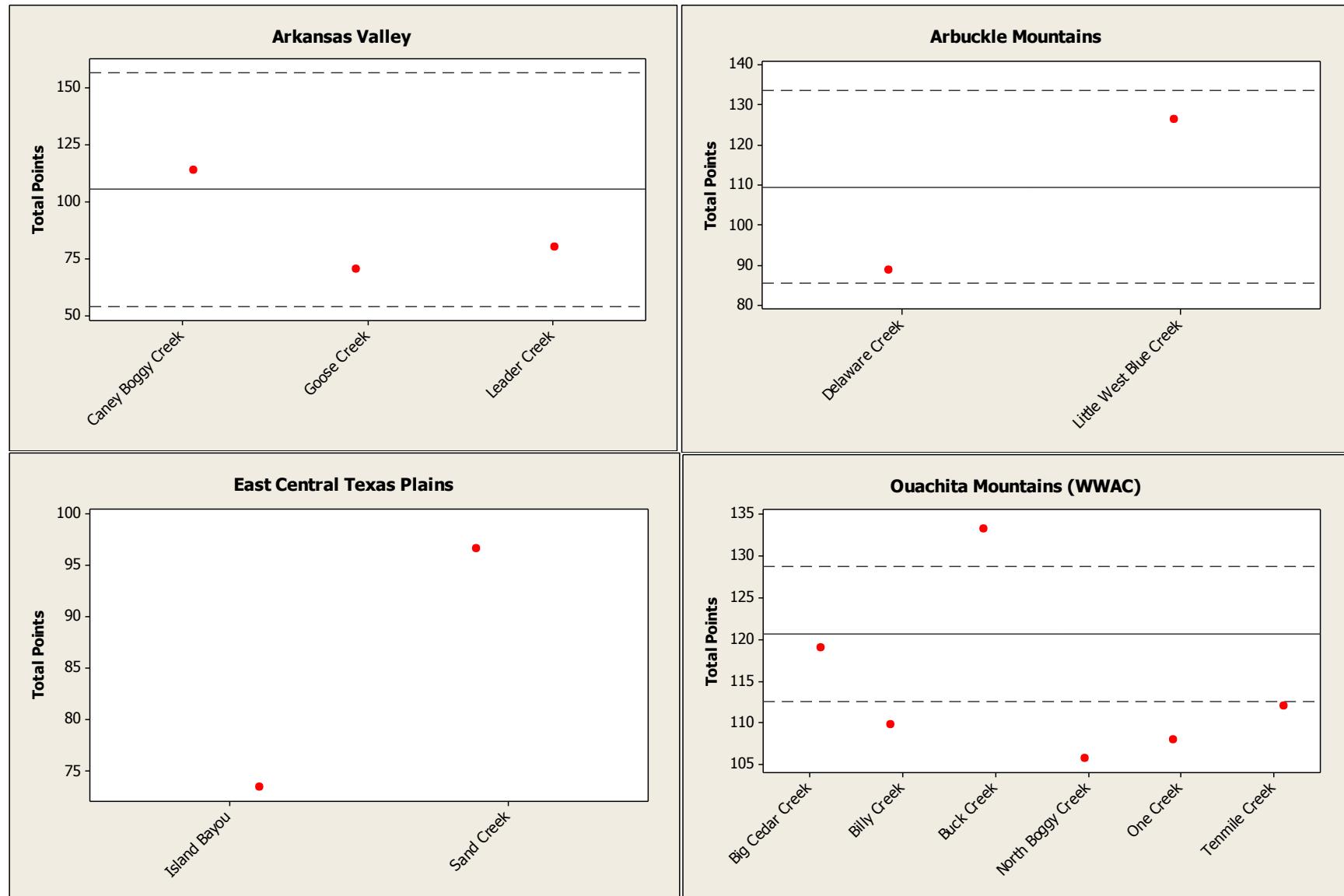


Figure 4, cont. Total habitat score for each fixed site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.

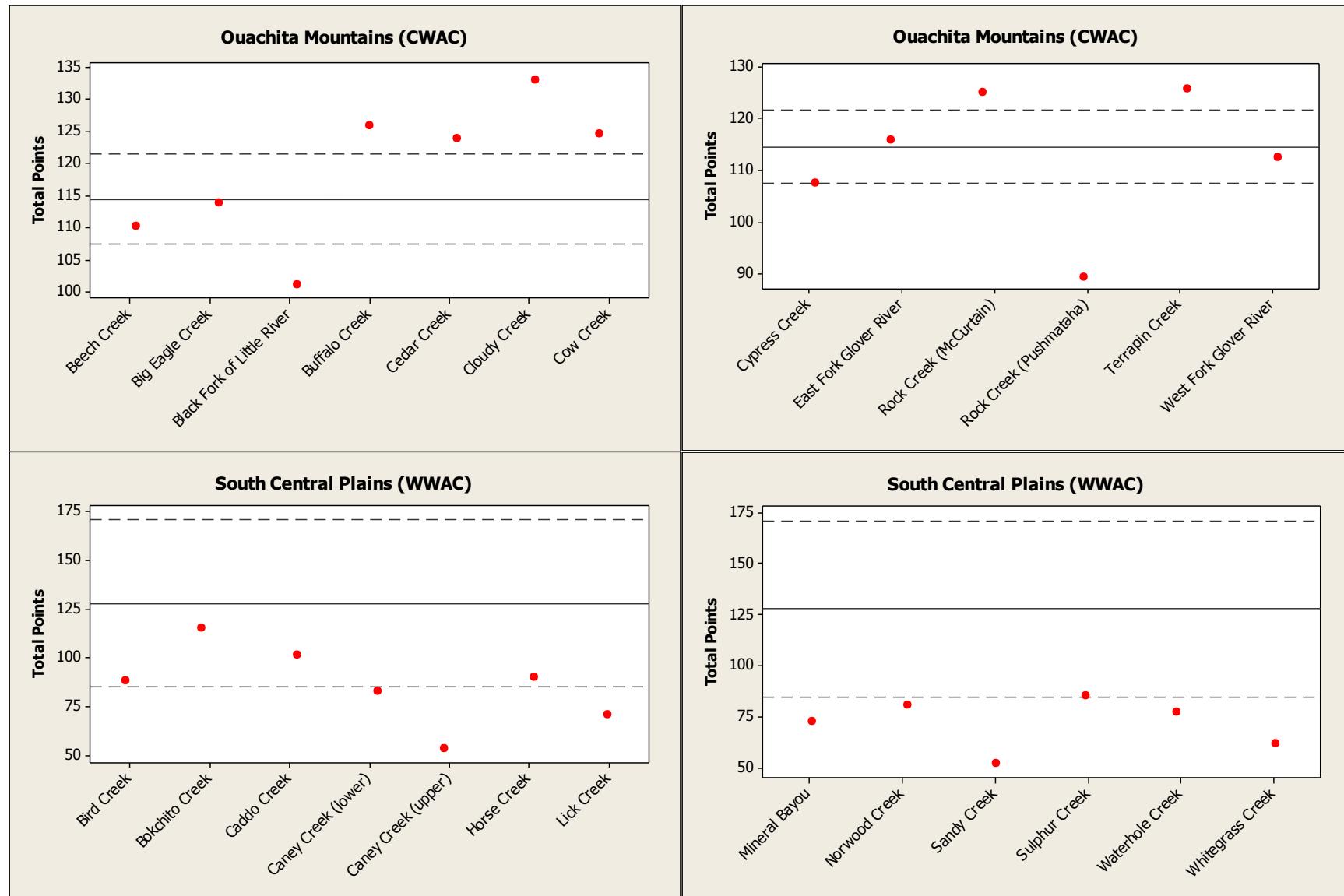
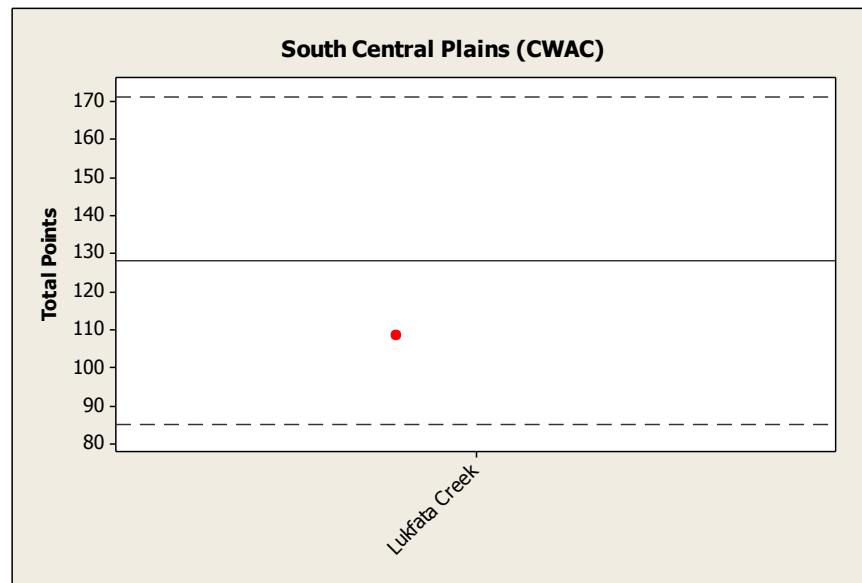


Figure 4, cont. Total habitat score for each fixed site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.



Probabilistic sites (Figure 5): Two of 11 sites in the AV ecoregion were significantly below the average high quality streams in the same ecoregion while the rest fell within two standard deviations. All of the probabilistic sites in the Arbuckle Mountains are within two standard deviations. Most of the warm water sites in the Ouachita Mountain ecoregion were below the high quality value; Chickasaw Creek and an Unnamed Creek (098) were within two standard deviations of the high quality mean; Kiamichi River (014) and McGee Creek (051) had significantly higher habitat scores than the average high quality sites. Three cool water sites in the OM ecoregion were significantly below the average high quality sites, three fell within two standard deviations, and the habitat in Boktuklo Creek was significantly better than the high quality sites. All of the warm water probabilistic sites in the SCP ecoregion were below the high quality values; two of the three cool water sites are within two standard deviations, but Little River (020) is below the average high quality streams.

Figure 5. Total habitat score for each probabilistic site by Level III ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.

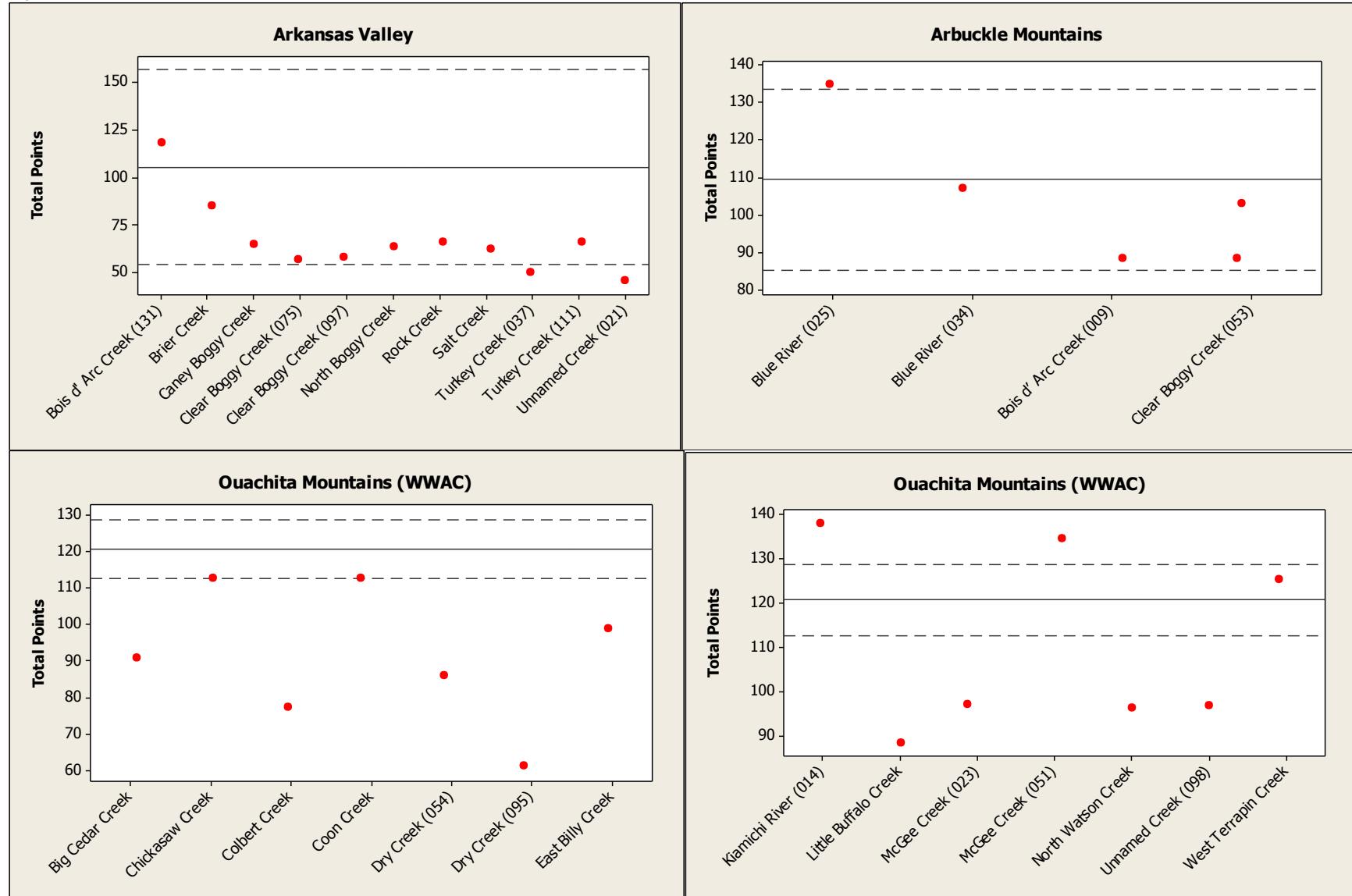
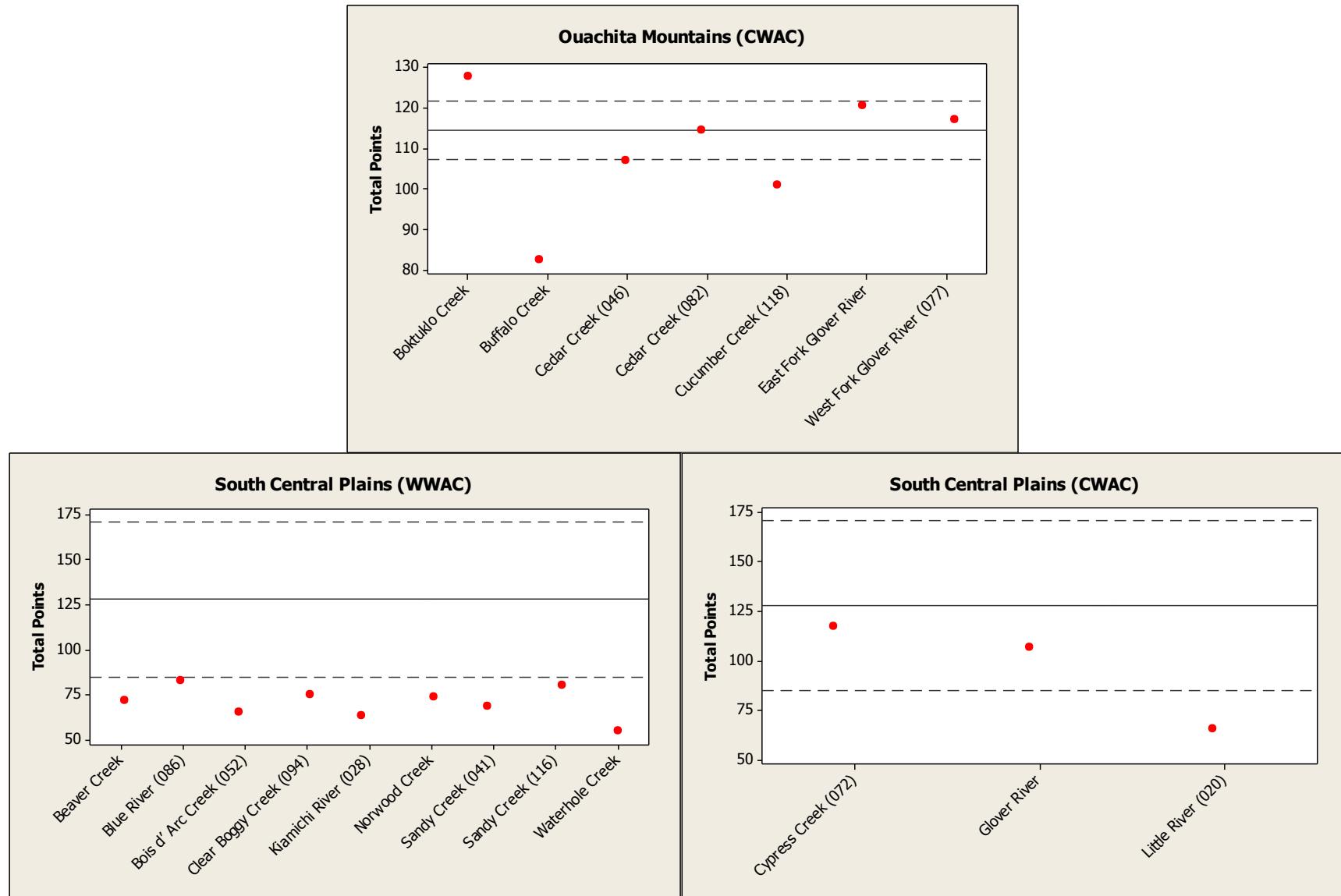


Figure 5, cont. Total habitat score for each probabilistic site by Level III ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.



3.2.2 Fish Collections

Fish metrics used to compute IBI scores for the Rotating Basin sites using the OCC method are listed in Tables 17 (fixed sites) and 18 (probabilistic sites). Use of this IBI method allows assessment of streams which lack definite support assignment using the state biocriteria method. For a complete listing of fish collection data, including species and numbers caught, consult Appendix B. All data was compared relative to the same mean of the high quality sites for the respective ecoregion in order to obtain the IBI score (OCC method). Although, ideally, one would use collections from the same years for comparison, multiyear collections at sites deemed “high quality” were not available.

Table 17. Metric values for calculation of fish IBI scores (OCC method) for fixed sites in Rotating Basin Year 5, Cycle 2.

Site Name	WBID	Total Number	Total Species	# Sensitive Benthic Spp	# Sunfish Spp	# Intolerant Spp	Percent Tolerant Individuals	Percent Insectivorous Cyprinid Individuals	Percent Lithophytic Spawner Individuals
Beech Creek	OK410210-06-0320G	450	13	4	3	5	0.22	0.26	0.55
Big Cedar Creek	OK410310-02-0100D	287	12	4	2	3	0.27	0.20	0.54
Big Eagle Creek	OK410210-06-0160L	522	11	4	3	5	0.25	0.13	0.44
Billy Creek	OK410310-02-0070C	617	17	4	6	3	0.34	0.43	0.37
Bird Creek	OK410300-01-0100C	262	19	1	9	3	0.71	0.05	0.03
Black Fork Little River	OK410210-03-0020C	425	23	8	7	8	0.68	0.17	0.26
Bokchito Creek	OK410600-01-0090G	525	14	2	6	2	0.51	0.26	0.43
Buck Creek	OK410310-03-0420C	153	17	4	4	4	0.49	0.37	0.22
Buffalo Creek	OK410210-06-0020G	473	18	5	6	2	0.32	0.07	0.40
Caddo Creek	OK410600-01-0140G	432	23	3	10	3	0.51	0.04	0.33
Caney Boggy Creek	OK410400-06-0120G	284	18	1	7	2	0.96	0.03	0.02
Caney Creek (lower)	OK410400-02-0200G	395	21	3	9	4	0.82	0.01	0.03
Caney Creek (upper)	OK410400-03-0020C	483	24	6	7	7	0.52	0.31	0.15
Cedar Creek	OK410300-03-0020M	429	20	5	6	5	0.64	0.16	0.19
Cloudy Creek	OK410210-02-0300C	284	14	3	4	4	0.53	0.12	0.30
Cow Creek	OK410210-06-0350G	360	12	5	4	7	0.22	0.53	0.45
Cypress Creek	OK410210-01-0070G	186	13	3	4	2	0.43	0.41	0.44
Delaware Creek	OK410400-03-0240M	345	17	6	3	4	0.34	0.32	0.37
East Fork Glover River	OK410210-09-0010G	972	21	8	5	9	0.27	0.27	0.56
Goose Creek	OK410400-03-0490G	201	13	6	4	4	0.90	0.05	0.03
Horse Creek	OK410400-01-0040G	500	25	7	7	4	0.74	0.19	0.05
Island Bayou	OK410700-00-0040G	432	23	6	7	3	0.68	0.25	0.05
Leader Creek	OK410400-03-0370B	154	20	4	8	5	0.71	0.18	0.08
Lick Creek	OK410400-01-0130G	137	21	4	7	6	0.50	0.26	0.04

Site Name	WBID	Total Number	Total Species	# Sensitive Benthic Spp	# Sunfish Spp	# Intolerant Spp	Percent Tolerant Individuals	Percent Insectivorous Cyprinid Individuals	Percent Lithophytic Spawner Individuals
Little West Blue Creek	OK410600-02-0100C	568	19	5	5	6	0.17	0.45	0.72
Lukfata Creek	OK410210-07-0010G	464	24	9	5	8	0.41	0.28	0.45
Mineral Bayou	OK410600-01-0300G	281	20	6	7	4	0.43	0.16	0.36
North Boggy Creek	OK410400-08-0010M	392	23	4	9	4	0.60	0.19	0.28
Norwood Creek	OK410100-01-0050H	207	24	3	8	4	0.78	0.07	0.11
One Creek	OK410300-03-0060F	486	27	5	8	6	0.43	0.15	0.22
Rock Creek (McCurtain)	OK410200-03-0010G	191	13	3	4	6	0.36	0.32	0.63
Rock Creek (Pushmataha)	OK410300-02-0190G	149	14	3	6	1	0.61	0.01	0.38
Sand Creek	OK410700-00-0260G	457	17	4	6	2	0.65	0.18	0.15
Sandy Creek	OK410600-02-0020G	264	17	4	6	2	0.28	0.23	0.11
Sulphur Creek	OK410600-01-0030G	469	17	3	5	2	0.70	0.21	0.06
Tenmile Creek	OK410300-03-0270C	158	21	4	5	5	0.49	0.27	0.39
Terrapin Creek	OK410210-02-0150G	194	14	2	5	3	0.30	0.36	0.51
Waterhole Creek	OK410100-01-0340D	195	26	4	10	3	0.86	0.08	0.01
West Fork Glover River	OK410210-08-0010M	675	14	2	4	5	0.48	0.24	0.45
Whitegrass Creek	OK410400-01-0210G	107	11	3	4	4	0.88	0.02	0.05

Table 18. Metric values for calculation of fish IBI scores (OCC method) for probabilistic sites in Rotating Basin Year 5, Cycle 2.

Site Name	WBID	Total Number	Total Species	# Sensitive Benthic Spp	# Sunfish Spp	# Intolerant Spp	Percent Tolerant Individuals	Percent Insectivorous Cyprinid Individuals	Percent Lithophytic Spawner Individuals
Beaver Creek	OKLRED-108	555	18	3	6	4	0.84	0.14	0.13
Big Cedar Creek	OKLRED-011	301	9	4	2	3	0.06	0.05	0.84
Blue River (025)	OKLRED-025	563	19	6	7	7	0.29	0.12	0.64
Blue River (034)	OKLRED-034	158	24	8	7	4	0.37	0.25	0.32
Blue River (086)	OKLRED-086	1434	23	9	4	6	0.52	0.45	0.03
Bois d' Arc Creek (131)	OKLRED-131	469	14	4	5	4	0.66	0.12	0.22
Bois d' Arc Creek (052)	OKLRED-052	232	17	2	10	2	0.84	0.00	0.06
Boktuklo Creek	OKLRED-110	400	18	7	5	7	0.34	0.24	0.62

Site Name	WBID	Total Number	Total Species	# Sensitive Benthic Spp	# Sunfish Spp	# Intolerant Spp	Percent Tolerant Individuals	Percent Insectivorous Cyprinid Individuals	Percent Lithophytic Spawner Individuals
Brier Creek	OKLRED-057	224	20	3	9	4	0.70	0.14	0.10
Buffalo Creek	OKLRED-059	210	18	3	8	2	0.41	0.00	0.06
Caney Boggy Creek	OKLRED-005	259	21	5	6	6	0.81	0.05	0.12
Cedar Creek (046)	OKLRED-046	352	17	3	5	2	0.18	0.04	0.32
Cedar Creek (082)	OKLRED-082	451	14	6	3	6	0.41	0.28	0.56
Chickasaw Creek	OKLRED-019	831	25	4	9	5	0.70	0.19	0.24
Clear Boggy Creek (053)	OKLRED-053	1228	31	7	14	4	0.51	0.30	0.44
Clear Boggy Creek (075)	OKLRED-075	329	15	5	4	3	0.29	0.65	0.03
Clear Boggy Creek (094)	OKLRED-094	137	12	4	2	3	0.35	0.36	0.03
Clear Boggy Creek (097)	OKLRED-097	237	12	5	3	4	0.33	0.61	0.02
Colbert Creek	OKLRED-120	922	17	4	3	5	0.42	0.19	0.58
Coon Creek	OKLRED-010	304	10	4	2	3	0.18	0.15	0.46
Cucumber Creek (118)	OKLRED-118	323	11	4	3	5	0.03	0.14	0.94
Cypress Creek (072)	OKLRED-072	677	27	4	8	7	0.37	0.13	0.52
Dry Creek (054)	OKLRED-054	415	12	3	4	2	0.42	0.00	0.57
Dry Creek (095)	OKLRED-095	763	11	2	5	1	0.72	0.00	0.28
East Billy Creek	OKLRED-089	349	8	2	3	2	0.51	0.01	0.48
East Fork Glover River	OKLRED-015	582	14	5	4	6	0.14	0.33	0.76
Glover River	OKLRED-048	1157	29	11	5	10	0.39	0.21	0.57
Kiamichi River (014)	OKLRED-014	455	23	5	6	7	0.35	0.14	0.55
Kiamichi River (028)	OKLRED-028	80	10	0	4	0	0.86	0.01	0.01
Little Buffalo Creek	OKLRED-132	571	28	5	9	5	0.37	0.01	0.48
Little River (020)	OKLRED-020	180	20	2	5	1	0.64	0.18	0.08
McGee Creek (023)	OKLRED-023	784	19	6	6	2	0.34	0.25	0.63
McGee Creek (051)	OKLRED-051	722	25	7	7	9	0.34	0.44	0.58
North Boggy Creek	OKLRED-007	175	18	2	9	2	0.56	0.10	0.04
Norwood Creek	OKLRED-004	60	12	1	4	2	0.67	0.08	0.02
Rock Creek	OKLRED-033	164	19	4	8	3	0.73	0.12	0.13
Salt Creek	OKLRED-101	325	24	3	8	6	0.88	0.07	0.04
Sandy Creek (041)	OKLRED-041	289	16	3	5	2	0.75	0.15	0.18
Sandy Creek (116)	OKLRED-116	143	15	1	6	3	0.64	0.20	0.01
Turkey Creek	OKLRED-037	230	12	2	7	2	0.97	0.01	0.01
Turkey Creek (111)	OKLRED-111	76	12	0	5	1	0.74	0.25	0.01
Unnamed Creek (021)	OKLRED-021	101	11	1	6	1	0.98	0.00	0.00

Site Name	WBID	Total Number	Total Species	# Sensitive Benthic Spp	# Sunfish Spp	# Intolerant Spp	Percent Tolerant Individuals	Percent Insectivorous Cyprinid Individuals	Percent Lithophytic Spawner Individuals
Unnamed Creek (098)	OKLRED-098	560	15	4	3	5	0.17	0.27	0.58
Waterhole Creek	OKLRED-060	518	24	3	8	2	0.85	0.13	0.01
West Fork Glover River (077)	OKLRED-077	679	15	4	5	5	0.34	0.33	0.59
West Terrapin Creek	OKLRED-026	366	10	3	2	2	0.27	0.46	0.70

Table 19 presents the results of the fixed site fish assessment based on the OCC's modified RBP method. There are no identified reference conditions for the East Central Texas Plains ecoregion. All three sites in the Arkansas Valley ecoregion were "fair." Of the remaining 37 sites, 31 were "excellent" when compared with high quality sites with the same FWP use in the ecoregion, and 4 were "fair" with none scoring below 75% of reference.

Table 19. IBI scores for fixed sites based on OCC's modified RBP method. WWAC=warm water aquatic community, CWAC=cool water aquatic community, NR=no reference sites determined for that ecoregion.

EcoRegion	Site Name	WBID	Fish and Wildlife Prop.	IBI Total Score (OCC)	% of Reference	Score Interpretation (OCC)
AV	Caney Boggy Creek	OK410400-06-0120G	WWAC	17	0.63	Fair
AV	Goose Creek	OK410400-03-0490G	WWAC	19	0.70	Fair
AV	Leader Creek	OK410400-03-0370B	WWAC	21	0.78	Fair
Arb	Delaware Creek	OK410400-03-0240M	WWAC	27	1.08	Excellent
Arb	Little West Blue Creek	OK410600-02-0100C	WWAC	31	1.24	Excellent
ECTP	Island Bayou	OK410700-00-0040G	WWAC	NR		
ECTP	Sand Creek	OK410700-00-0260G	WWAC	NR		
OM	Beech Creek	OK410210-06-0320G	CWAC	29	1.07	Excellent
OM	Big Eagle Creek	OK410210-06-0160L	CWAC	25	0.93	Excellent
OM	Black Fork of Little River	OK410210-03-0020C	CWAC	25	0.93	Excellent
OM	Buffalo Creek	OK410210-06-0020G	CWAC	25	0.93	Excellent
OM	Cedar Creek	OK410300-03-0020M	CWAC	25	0.93	Excellent
OM	Cloudy Creek	OK410210-02-0300C	CWAC	21	0.78	Fair

EcoRegion	Site Name	WBID	Fish and Wildlife Prop.	IBI Total Score (OCC)	% of Reference	Score Interpretation (OCC)
OM	Cow Creek	OK410210-06-0350G	CWAC	31	1.15	Excellent
OM	Cypress Creek	OK410210-01-0070G	CWAC	25	0.93	Excellent
OM	East Fork Glover River	OK410210-09-0010G	CWAC	29	1.07	Excellent
OM	Rock Creek (McCurtain)	OK410200-03-0010G	CWAC	27	1.00	Excellent
OM	Rock Creek (Pushmataha)	OK410300-02-0190G	CWAC	21	0.78	Fair
OM	Terrapin Creek	OK410210-02-0150G	CWAC	25	0.93	Excellent
OM	West Fork Glover River	OK410210-08-0010M	CWAC	27	1.00	Excellent
OM	Big Cedar Creek	OK410310-02-0100D	WWAC	23	0.92	Excellent
OM	Billy Creek	OK410310-02-0070C	WWAC	27	1.08	Excellent
OM	Buck Creek	OK410310-03-0420C	WWAC	27	1.08	Excellent
OM	North Boggy Creek	OK410400-08-0010M	WWAC	25	1.00	Excellent
OM	One Creek	OK410300-03-0060F	WWAC	25	1.00	Excellent
OM	Tenmile Creek	OK410300-03-0270C	WWAC	29	1.16	Excellent
SCP	Lukfata Creek	OK410210-07-0010G	CWAC	29	1.26	Excellent
SCP	Bird Creek	OK410300-01-0100C	WWAC	19	0.76	Fair
SCP	Bokchito Creek	OK410600-01-0090G	WWAC	25	1.00	Excellent
SCP	Caddo Creek	OK410600-01-0140G	WWAC	25	1.00	Excellent
SCP	Caney Creek (lower)	OK410400-02-0200G	WWAC	23	0.92	Excellent
SCP	Caney Creek (upper)	OK410400-03-0020C	WWAC	25	1.00	Excellent
SCP	Horse Creek	OK410400-01-0040G	WWAC	23	0.92	Excellent
SCP	Lick Creek	OK410400-01-0130G	WWAC	25	1.00	Excellent
SCP	Mineral Bayou	OK410600-01-0300G	WWAC	25	1.00	Excellent
SCP	Norwood Creek	OK410100-01-0050H	WWAC	23	0.92	Excellent
SCP	Sandy Creek	OK410600-02-0020G	WWAC	23	0.92	Excellent
SCP	Sulphur Creek	OK410600-01-0030G	WWAC	23	0.92	Excellent
SCP	Waterhole Creek	OK410100-01-0340D	WWAC	23	0.92	Excellent
SCP	Whitegrass Creek	OK410400-01-0210G	WWAC	19	0.76	Fair

Table 20 presents the results of the probabilistic site fish assessment based on the OCC's modified RBP method. In the Arkansas Valley ecoregion, 8 of 11 sites were rated "fair" and 3 were "poor." Of the remaining 35 sites, 23 rated "excellent", 6 were "good", 4 were "fair", and 2 were "poor." Both of the "poor" sites were in the South Central Plains WWAC ecoregion.

Table 20. IBI scores for probabilistic sites based on OCC's modified RBP method. WWAC=warm water aquatic community, CWAC=cool water aquatic community.

EcoRegion	Site Name	WBID	Fish and Wildlife Prop.	IBI Total Score (OCC)	% of Reference	Score Interpretation (OCC)
AV	Bois d' Arc Creek (131)	OKLRED-131	WWAC	21	0.78	Fair
AV	Brier Creek	OKLRED-057	WWAC	21	0.78	Fair
AV	Caney Boggy Creek	OKLRED-005	WWAC	21	0.78	Fair
AV	Clear Boggy Creek (075)	OKLRED-075	WWAC	19	0.70	Fair
AV	Clear Boggy Creek (097)	OKLRED-097	WWAC	21	0.78	Fair
AV	North Boggy Creek	OKLRED-007	WWAC	17	0.63	Fair
AV	Rock Creek	OKLRED-033	WWAC	19	0.70	Fair
AV	Salt Creek	OKLRED-101	WWAC	21	0.78	Fair
AV	Turkey Creek (037)	OKLRED-037	WWAC	15	0.56	Poor
AV	Turkey Creek (111)	OKLRED-111	WWAC	15	0.56	Poor
AV	Unnamed Creek (021)	OKLRED-021	WWAC	13	0.48	Poor
Arb	Blue River (025)	OKLRED-025	WWAC	27	1.08	Excellent
Arb	Blue River (034)	OKLRED-034	WWAC	27	1.08	Excellent
Arb	Clear Boggy Creek (053)	OKLRED-053	WWAC	29	1.16	Excellent
OM	Boktuklo Creek	OKLRED-110	CWAC	29	1.07	Excellent
OM	Buffalo Creek	OKLRED-059	CWAC	19	0.70	Fair
OM	Cedar Creek (046)	OKLRED-046	CWAC	23	0.85	Good
OM	Cedar Creek (082)	OKLRED-082	CWAC	27	1.00	Excellent
OM	Cucumber Creek (118)	OKLRED-118	CWAC	27	1.00	Excellent
OM	East Fork Glover River	OKLRED-015	CWAC	31	1.15	Excellent
OM	West Fork Glover River (077)	OKLRED-077	CWAC	29	1.07	Excellent
OM	Big Cedar Creek	OKLRED-011	WWAC	25	1.00	Excellent
OM	Chickasaw Creek	OKLRED-019	WWAC	25	1.00	Excellent
OM	Colbert Creek	OKLRED-120	WWAC	27	1.08	Excellent
OM	Coon Creek	OKLRED-010	WWAC	25	1.00	Excellent
OM	Dry Creek (054)	OKLRED-054	WWAC	25	1.00	Excellent
OM	Dry Creek (095)	OKLRED-095	WWAC	19	0.76	Fair
OM	East Billy Creek	OKLRED-089	WWAC	21	0.84	Good
OM	Kiamichi River (014)	OKLRED-014	WWAC	27	1.08	Excellent
OM	Little Buffalo Creek	OKLRED-132	WWAC	27	1.08	Excellent
OM	McGee Creek (023)	OKLRED-023	WWAC	27	1.08	Excellent

EcoRegion	Site Name	WBID	Fish and Wildlife Prop.	IBI Total Score (OCC)	% of Reference	Score Interpretation (OCC)
OM	McGee Creek (051)	OKLRED-051	WWAC	29	1.16	Excellent
OM	Unnamed Creek (098)	OKLRED-098	WWAC	31	1.24	Excellent
OM	West Terrapin Creek	OKLRED-026	WWAC	27	1.08	Excellent
SCP	Cypress Creek (072)	OKLRED-072	CWAC	25	1.09	Excellent
SCP	Glover River	OKLRED-048	CWAC	29	1.26	Excellent
SCP	Little River (020)	OKLRED-020	CWAC	15	0.65	Fair
SCP	Beaver Creek	OKLRED-108	WWAC	23	0.92	Excellent
SCP	Blue River (086)	OKLRED-086	WWAC	23	0.92	Excellent
SCP	Bois d' Arc Creek (052)	OKLRED-052	WWAC	19	0.76	Fair
SCP	Clear Boggy Creek (094)	OKLRED-094	WWAC	21	0.84	Good
SCP	Kiamichi River (028)	OKLRED-028	WWAC	11	0.44	Poor
SCP	Norwood Creek	OKLRED-004	WWAC	13	0.52	Poor
SCP	Sandy Creek (041)	OKLRED-041	WWAC	21	0.84	Good
SCP	Sandy Creek (116)	OKLRED-116	WWAC	21	0.84	Good
SCP	Waterhole Creek	OKLRED-060	WWAC	21	0.84	Good

Overall, when looking at fish communities, the streams in the Arkansas Valley ecoregion all scored in the “fair” and “poor” range. The South Central Plains showed mixed results. Combining the rest of the ecoregions, the fish communities in the fixed sites were 90% “excellent” and 9% “fair”; the fish in the probabilistic sites were 83% “excellent”, 7% “good”, and 7% “fair.” In the entire basin approximately 94% of the sites have at least good fish communities and only 6% have poor communities relative to high quality sites in the ecoregions of this basin.

Figure 6 shows the IBI score for each fixed site (indicated by a red dot) relative to the mean value for the high quality sites in that ecoregion (indicated by a solid line). Figure 7 shows the probabilistic site scores. The dashed lines in each graph represent +/- two standard deviations of the mean IBI score of the high quality sites in that ecoregion. There was only one high quality site in the SCP ecoregion for the WWAC designation and the CWAC designation, so no range is indicated. There were no high quality sites in the East Central Texas plains ecoregion, so that data is not shown in Figure 6. Any sites with IBI scores equal to or better than the mean of the high quality streams will be examined for possible inclusion in the high quality sites list and an effort will be made to find sites to represent good quality in the ECTP ecoregion.

Figure 6. IBI score (fish) for each fixed site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.

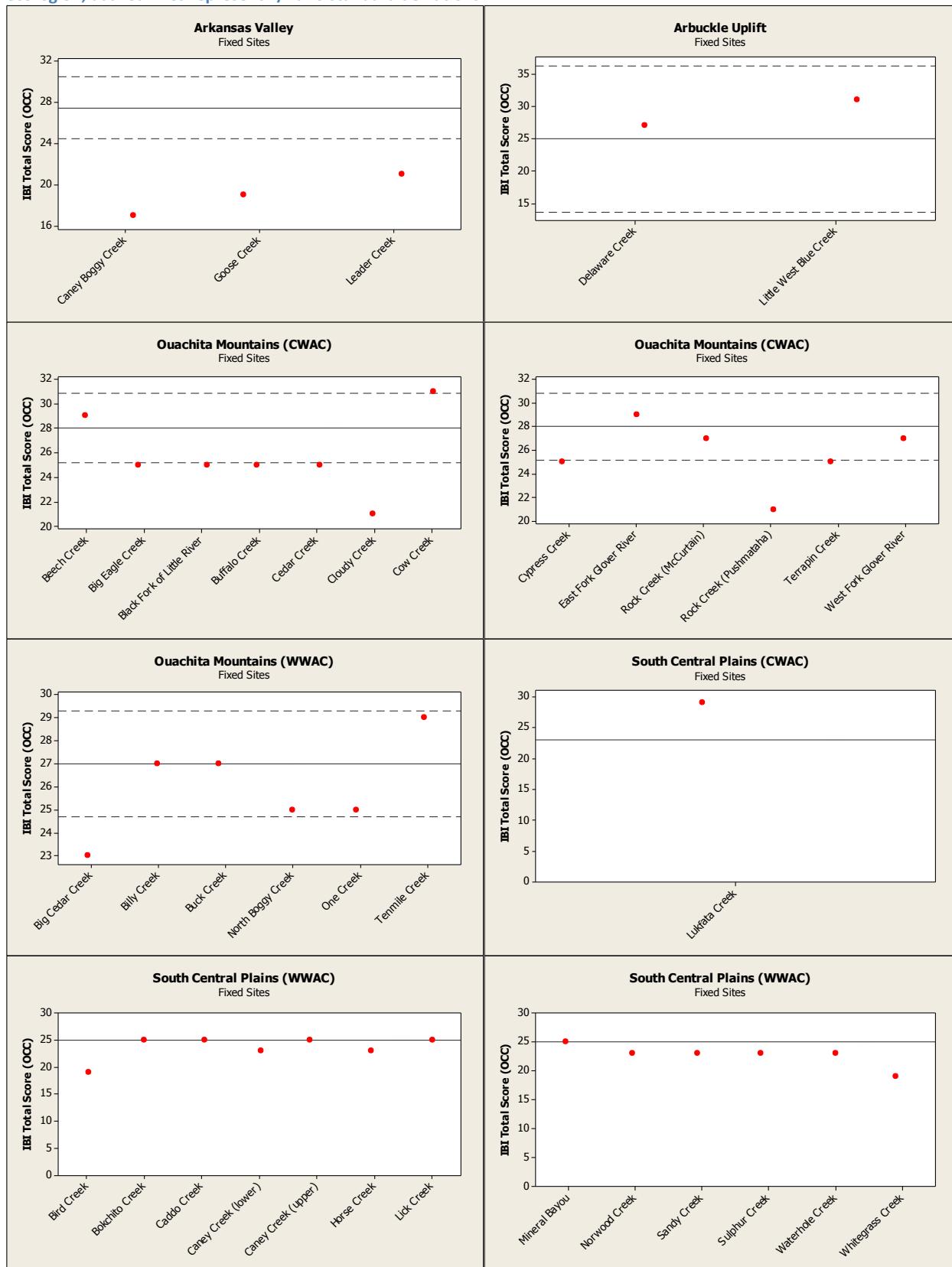
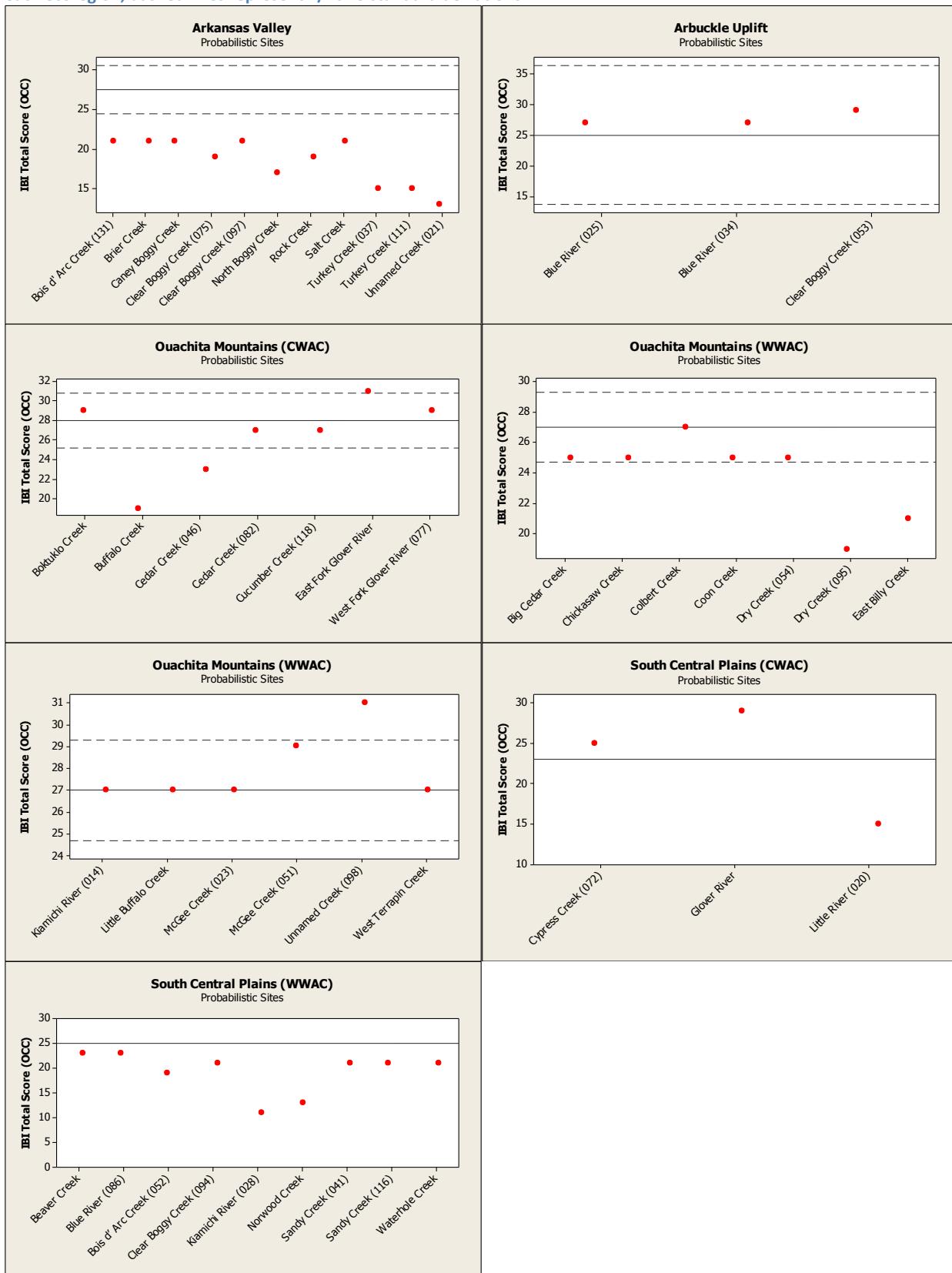


Figure 7. IBI score (fish) for each probabilistic site by ecoregion. Solid lines indicate the mean value of high quality sites in each ecoregion; dashed lines represent +/- two standard deviations.



Thirty-nine percent of the probabilistic sites and 25% of the fixed sites had significantly lower IBI scores than the high quality sites, as indicated by an IBI score below the bottom dashed line in Figures 6 and 7. (The sites without good high quality reference conditions were not used in this comparison.) These sites were rated “good,” “fair,” or “poor” using the OCC IBI method (Tables 19 – 21). Conditions have been quite dry during this monitoring cycle, so it is possible that this contributed to low fish scores relative to the high quality site scores, which were collected in previous years. There tended to be more variability among the probabilistic sites than among the fixed sites. This could be an artifact of the selection process for the fixed sites; only sites with consistent flow have been maintained as part of the regular rotation, while probabilistic sites were included if there was water present at the time of the initial visit.

Table 21 shows a comparison between fish data collected in cycle 1 (2005 or 2006) and cycle 2 (2010 or 2011) of the rotating basin project in order to examine whether biological conditions have improved, worsened, or remained the same at a particular site. IBI scores were calculated relative to the same high quality sites data for both cycles, so any change in condition is due only to a change in the rotating basin cycle 2 collection, not to a change in the high quality sites. The fish community remained in the same condition for 26 of the 38 sites with IBI scores to be compared. Four streams had worse fish community conditions in cycle 2 relative to cycle 1, while eight streams had improved fish communities.

Table 21. Comparison of fish data from previous projects to Rotating Basin Year 5 Cycle 2 (2010-2011). NR = No Reference

Site Name	WBID	Cycle	Total Number	Total Spp	Sensitive Benthic Spp	Sunfish Spp	Intolerant Spp	Proportion Tolerant Individuals	Proportion Insectivorous Cyprinid Individuals	Proportion Lithophytic Spawner Individuals	Total Score	IBI	Condition
Beech Creek	OK410210-06-0320G	2005-2006	343	10	2	2	4	0.08	0.74	0.22	27	1.00	Excellent
Beech Creek	OK410210-06-0320G	2010-2012	450	13	4	3	5	0.22	0.26	0.55	29	1.07	Excellent
Big Cedar Creek	OK410310-02-0100D	2005-2006	311	9	2	2	3	0.17	0.01	0.82	21	0.78	Fair
Big Cedar Creek	OK410310-02-0100D	2010-2012	287	12	4	2	3	0.27	0.20	0.54	23	0.92	Excellent
Big Eagle Creek	OK410210-06-0160L	2005-2006	340	13	2	3	5	0.15	0.14	0.78	25	0.93	Excellent
Big Eagle Creek	OK410210-06-0160L	2010-2012	522	11	4	3	5	0.25	0.13	0.44	25	0.93	Excellent
Billy Creek	OK410310-02-0070C	2005-2006	357	18	4	5	5	0.27	0.19	0.17	23	0.85	Good
Billy Creek	OK410310-02-0070C	2010-2012	617	17	4	6	3	0.34	0.43	0.37	27	1.08	Excellent
Bird Creek	OK410300-01-0100C	2005-2006	256	15	1	6	2	0.66	0.16	0.11	17	0.71	Fair
Bird Creek	OK410300-01-0100C	2010-2012	262	19	1	9	3	0.71	0.05	0.03	19	0.76	Fair
Black Fork of Little River	OK410210-03-0020C	2005-2006	239	21	5	6	6	0.48	0.18	0.33	25	0.93	Excellent
Black Fork of Little River	OK410210-03-0020C	2010-2012	425	23	8	7	8	0.68	0.17	0.26	25	0.93	Excellent
Bokchito Creek	OK410600-01-0090G	2005-2006	714	19	2	6	4	0.36	0.06	0.52	25	1.04	Excellent
Bokchito Creek	OK410600-01-0090G	2010-2012	525	14	2	6	2	0.51	0.26	0.43	25	1.00	Excellent
Buck Creek	OK410310-03-0420C	2005-2006	239	17	6	4	4	0.34	0.15	0.43	27	1.00	Excellent
Buck Creek	OK410310-03-0420C	2010-2012	153	17	4	4	4	0.49	0.37	0.22	27	1.08	Excellent

Site Name	WBID	Cycle	Total Number	Total Spp	Sensitive Benthic Spp	Sunfish Spp	Intolerant Spp	Proportion Tolerant Individuals	Proportion Insectivorous Cyprinid Individuals	Proportion Lithophytic Spawner Individuals	Total Score	BI	Condition
Buffalo Creek	OK410210-06-0020G	2005-2006	448	15	3	5	4	0.18	0.22	0.48	31	1.15	Excellent
Buffalo Creek	OK410210-06-0020G	2010-2012	473	18	5	6	2	0.32	0.07	0.40	25	0.93	Excellent
Caddo Creek	OK410600-01-0140G	2005-2006	561	21	5	7	4	0.34	0.03	0.43	27	1.13	Excellent
Caddo Creek	OK410600-01-0140G	2010-2012	432	23	3	10	3	0.51	0.04	0.33	25	1.00	Excellent
Caney Boggy Creek	OK410400-06-0120G	2005-2006	275	23	6	8	5	0.48	0.07	0.35	25	0.91	Good
Caney Boggy Creek	OK410400-06-0120G	2010-2012	284	18	1	7	2	0.96	0.03	0.02	17	0.63	Fair
Caney Creek (lower)	OK410400-02-0200G	2005-2006	523	25	7	9	6	0.81	0.07	0.07	23	0.96	Excellent
Caney Creek (lower)	OK410400-02-0200G	2010-2012	395	21	3	9	4	0.82	0.01	0.03	23	0.92	Excellent
Caney Creek (upper)	OK410400-03-0020C	2005-2006	277	17	4	7	2	0.45	0.15	0.39	25	1.04	Excellent
Caney Creek (upper)	OK410400-03-0020C	2010-2012	483	24	6	7	7	0.52	0.31	0.15	25	1.00	Excellent
Cedar Creek	OK410300-03-0020M	2005-2006	137	18	5	5	6	0.45	0.13	0.25	25	0.93	Excellent
Cedar Creek	OK410300-03-0020M	2010-2012	429	20	5	6	5	0.64	0.16	0.19	25	0.93	Excellent
Cloudy Creek	OK410210-02-0300C	2005-2006	206	21	6	5	7	0.34	0.34	0.27	27	1.00	Excellent
Cloudy Creek	OK410210-02-0300C	2010-2012	284	14	3	4	4	0.53	0.12	0.30	21	0.78	Fair
Cow Creek	OK410210-06-0350G	2005-2006	51	8	3	2	4	0.43	0.14	0.55	23	0.85	Good
Cow Creek	OK410210-06-0350G	2010-2012	360	12	5	4	7	0.22	0.53	0.45	31	1.15	Excellent
Cypress Creek	OK410210-01-0070G	1991	237	19	3	7	6	0.26	0.47	0.52	27	1.00	Excellent
Cypress Creek	OK410210-01-0070G	1994	410	23	4	8	7	0.46	0.17	0.40	27	1.00	Excellent
Cypress Creek	OK410210-01-0070G	2005-2006	201	22	4	7	7	0.50	0.25	0.19	27	1.00	Excellent
Cypress Creek	OK410210-01-0070G	2010-2012	186	13	3	4	2	0.43	0.41	0.44	25	0.93	Excellent
Delaware Creek	OK410400-03-0240M	2005-2006	248	22	7	7	6	0.40	0.32	0.26	27	1.08	Excellent
Delaware Creek	OK410400-03-0240M	2010-2012	345	17	6	3	4	0.34	0.32	0.37	27	1.08	Excellent
East Fork Glover River	OK410210-09-0010G	2005-2006	737	23	6	7	9	0.21	0.10	0.64	29	1.07	Excellent
East Fork Glover River	OK410210-09-0010G	2010-2012	972	21	8	5	9	0.27	0.27	0.56	29	1.07	Excellent
Goose Creek	OK410400-03-0490G	2005-2006	649	14	4	4	4	0.51	0.19	0.25	19	0.69	Fair
Goose Creek	OK410400-03-0490G	2010-2012	201	13	6	4	4	0.90	0.05	0.03	19	0.70	Fair
Horse Creek	OK410400-01-0040G	2005-2006	303	22	4	8	5	0.55	0.35	0.06	25	1.04	Excellent
Horse Creek	OK410400-01-0040G	2010-2012	500	25	7	7	4	0.74	0.19	0.05	23	0.92	Excellent
Island Bayou	OK410700-00-0040G	2005-2006	233	25	4	7	2	0.67	0.12	0.10	NR		
Island Bayou	OK410700-00-0040G	2010-2012	432	23	6	7	3	0.68	0.25	0.05	NR		
Leader Creek	OK410400-03-0370B	2005-2006	290	19	5	6	4	0.72	0.16	0.02	21	0.76	Fair
Leader Creek	OK410400-03-0370B	2010-2012	154	20	4	8	5	0.71	0.18	0.08	21	0.78	Fair
Lick Creek	OK410400-01-0130G	2005-2006	193	17	3	4	5	0.32	0.25	0.24	23	0.96	Excellent
Lick Creek	OK410400-01-0130G	2010-2012	137	21	4	7	6	0.50	0.26	0.04	25	1.00	Excellent

Site Name	WBID	Cycle	Total Number	Total Spp	Sensitive Benthic Spp	Sunfish Spp	Intolerant Spp	Proportion Tolerant Individuals	Proportion Insectivorous Cyprinid Individuals	Proportion Lithophytic Spawner Individuals	Total Score	BI	Condition
Little West Blue Creek	OK410600-02-0100C	2005-2006	934	23	8	4	8	0.16	0.32	0.78	29	1.16	Excellent
Little West Blue Creek	OK410600-02-0100C	2010-2012	568	19	5	5	6	0.17	0.45	0.72	31	1.24	Excellent
Lukfata Creek	OK410210-07-0010G	1991	150	20	5	8	4	0.68	0.03	0.05	23	0.96	Excellent
Lukfata Creek	OK410210-07-0010G	2005-2006	467	25	5	7	5	0.29	0.57	0.22	29	1.21	Excellent
Lukfata Creek	OK410210-07-0010G	2010-2012	464	24	9	5	8	0.41	0.28	0.45	29	1.26	Excellent
Mineral Bayou	OK410600-01-0300G	1994	777	18	5	6	2	0.42	0.34	0.23	23	0.96	Excellent
Mineral Bayou	OK410600-01-0300G	2005-2006	397	21	7	4	4	0.27	0.29	0.44	27	1.13	Excellent
Mineral Bayou	OK410600-01-0300G	2010-2012	281	20	6	7	4	0.43	0.16	0.36	25	1.00	Excellent
North Boggy Creek	OK410400-08-0010M	2005-2006	181	18	1	7	3	0.65	0.24	0.17	19	0.70	Fair
North Boggy Creek	OK410400-08-0010M	2010-2012	392	23	4	9	4	0.60	0.19	0.28	25	1.00	Excellent
Norwood Creek	OK410100-01-0050H	2005-2006	103	17	1	5	1	0.86	0.03	0.03	15	0.63	Poor
Norwood Creek	OK410100-01-0050H	2010-2012	207	24	3	8	4	0.78	0.07	0.11	23	0.92	Excellent
One Creek	OK410300-03-0060F	2005-2006	167	15	4	5	5	0.50	0.17	0.48	27	1.00	Excellent
One Creek	OK410300-03-0060F	2010-2012	486	27	5	8	6	0.43	0.15	0.22	25	1.00	Excellent
Rock Creek (McCurtain)	OK410200-03-0010G	2005-2006	258	14	3	6	6	0.20	0.43	0.73	31	1.15	Excellent
Rock Creek (McCurtain)	OK410200-03-0010G	2010-2012	191	13	3	4	6	0.36	0.32	0.63	27	1.00	Excellent
Rock Creek (Pushmataha)	OK410300-02-0190G	2005-2006	213	16	3	6	2	0.43	0.16	0.25	23	0.85	Good
Rock Creek (Pushmataha)	OK410300-02-0190G	2010-2012	149	14	3	6	1	0.61	0.01	0.38	21	0.78	Fair
Sand Creek	OK410700-00-0260G	2005-2006	596	17	4	5	3	0.29	0.24	0.38	NR		
Sand Creek	OK410700-00-0260G	2010-2012	457	17	4	6	2	0.65	0.18	0.15	NR		
Sandy Creek	OK410600-02-0020G	2005-2006	320	14	4	5	1	0.33	0.23	0.43	25	1.04	Excellent
Sandy Creek	OK410600-02-0020G	2010-2012	264	17	4	6	2	0.28	0.23	0.11	23	0.92	Excellent
Sulphur Creek	OK410600-01-0030G	2005-2006	361	21	3	5	3	0.66	0.07	0.18	19	0.79	Good
Sulphur Creek	OK410600-01-0030G	2010-2012	469	17	3	5	2	0.70	0.21	0.06	23	0.92	Excellent
Tenmile Creek	OK410300-03-0270C	2005-2006	160	14	4	3	2	0.29	0.21	0.50	25	0.93	Excellent
Tenmile Creek	OK410300-03-0270C	2010-2012	158	21	4	5	5	0.49	0.27	0.39	29	1.16	Excellent
Terrapin Creek	OK410210-02-0150G	2005-2006	179	13	2	5	3	0.26	0.06	0.62	23	0.85	Good
Terrapin Creek	OK410210-02-0150G	2010-2012	194	14	2	5	3	0.30	0.36	0.51	25	0.93	Excellent
Waterhole Creek	OK410100-01-0340D	2005-2006	78	13	1	6	1	0.78	0.12	0.01	13	0.54	Poor
Waterhole Creek	OK410100-01-0340D	2010-2012	195	26	4	10	3	0.86	0.08	0.01	23	0.92	Excellent
West Fork Glover River	OK410210-08-0010M	2003	772	16	5	5	6	0.30	0.47	0.66	27	1.00	Excellent
West Fork Glover River	OK410210-08-0010M	2005-2006	536	19	5	7	8	0.53	0.30	0.30	27	1.00	Excellent
West Fork Glover River	OK410210-08-0010M	2010-2012	675	14	2	4	5	0.48	0.24	0.45	27	1.00	Excellent

Site Name	WBID	Cycle	Total Number	Total Spp	Sensitive Benthic Spp	Sunfish Spp	Intolerant Spp	Proportion Tolerant Individuals	Proportion Insectivorous Cyprinid Individuals	Proportion Lithophytic Spawner Individuals	Total Score	HBI	Condition
Whitegrass Creek	OK410400-01-0210G	2005-2006	262	19	3	6	3	0.54	0.34	0.09	21	0.88	Good
Whitegrass Creek	OK410400-01-0210G	2010-2012	107	11	3	4	4	0.88	0.02	0.05	19	0.76	Fair

3.2.3 Macroinvertebrate Collections

The complete macroinvertebrate dataset, including species and numbers captured per site, can be found in Appendix C. Macroinvertebrates were collected for most sites at least once during the project period. Lack of flow during the collections periods prevented collection of all planned samples over the cycle.

Tables 22 and 23 present the mean values, by season and sample type, for each metric at each site for the two-year cycle 2 monitoring period. Riffle samples were collected at most sites and, generally, best reflect the macroinvertebrate community as a single habitat (Plafkin et al., 1989). Summer samples, as opposed to winter samples, represent the harshest time for macroinvertebrates; thus, their use constitutes a more conservative approach in assessing the communities.

Table 22. Macroinvertebrate metric values determined for each fixed monitoring site, averaged per season and habitat. NI = non-impaired, SI = slightly impaired, MI = moderately impaired, NR = No Reference.

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Beech Creek	OK410210-06-0320G	1	Riffle	S	20	11	0.63	3.99	0.48	2.26	26	1.00	NI	NI
		1	Riffle	W	21	10	0.44	4.78	0.53	2.28	24	0.80	SI	
Big Cedar Creek	OK410310-02-0100D	1	Riffle	W	17	8	0.16	7.05	0.65	1.89	18	0.69	SI	SI
Big Eagle Creek	OK410210-06-0160L	1	Riffle	S	20	12	0.77	4.26	0.47	2.40	26	1.00	NI	NI
		1	Riffle	W	16	10	0.84	4.76	0.64	1.92	22	0.73	SI	
Black Fork of Little River	OK410210-03-0020C	1	Riffle	S	18	0	0.00	6.90	0.60	1.92	14	0.54	SI	SI
		1	Riffle	W	18	5	0.16	6.15	0.51	2.11	16	0.53	SI	
Bokchito Creek	OK410600-01-0090G	2	Riffle	W	19	6	0.14	5.71	0.66	1.76	18	0.69	SI	SI
		1	Sveg	W	13	3	0.07	6.08	0.80	1.13	12	0.46	MI	
		1	Woody	W	14	4	0.04	6.02	0.85	0.91	12	0.50	MI	
Buck Creek	OK410310-03-0420C	1	Riffle	S	17	8	0.46	4.88	0.35	2.38	24	0.80	SI	NI
		2	Riffle	W	18	7	0.48	4.85	0.53	2.17	21	0.81	NI	

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Buffalo Creek	OK410210-06-0020G	1	Riffle	W	18	9	0.65	4.23	0.30	2.56	28	0.93	NI	SI
		1	Sveg	W	13	7	0.73	3.05	0.59	1.85	16	0.62	SI	
Caddo Creek	OK410600-01-0140G	1	Riffle	W	13	2	0.04	4.80	0.59	1.97	12	0.46	MI	MI
		1	Sveg	W	11	2	0.14	6.18	0.84	1.12	12	0.46	MI	
Caney Boggy Creek	OK410400-06-0120G	2	Riffle	W	14	4	0.09	6.33	0.60	1.84	14	0.54	SI	SI
		1	Sveg	W	13	4	0.08	5.27	0.81	1.22	10	0.36	MI	
		2	Woody	W	15	5	0.15	6.00	0.62	1.80	17	0.65	SI	
Caney Creek (lower)	OK410400-02-0200G	1	Riffle	S	15	3	0.70	6.09	0.69	1.71	20	0.77	SI	SI
		1	Riffle	W	14	5	0.23	6.18	0.65	1.79	20	0.77	SI	
		1	Sveg	W	20	3	0.04	6.10	0.51	2.34	14	0.54	SI	
Caney Creek (upper)	OK410400-03-0020C	2	Riffle	W	17	5	0.26	5.20	0.53	2.07	21	0.81	NI	SI
		1	Sveg	W	14	4	0.16	4.56	0.59	1.93	14	0.54	SI	
		2	Woody	W	13	4	0.28	4.46	0.49	2.00	16	0.67	SI	
Cedar Creek	OK410300-03-0020M	1	Riffle	S	18	2	0.03	6.55	0.61	1.98	14	0.54	SI	MI
		1	Riffle	W	17	4	0.29	4.92	0.51	2.13	16	0.53	SI	
		1	Woody	W	10	2	0.04	7.04	0.87	1.15	10	0.38	MI	
Cloudy Creek	OK410210-02-0300C	1	Riffle	S	26	11	0.19	5.40	0.51	2.35	22	0.85	NI	SI
		1	Riffle	W	22	11	0.54	4.73	0.40	2.60	26	0.87	NI	
		1	Woody	W	11	2	0.08	6.04	0.46	2.13	12	0.46	MI	
Cow Creek	OK410210-06-0350G	1	Riffle	W	18	10	0.73	3.77	0.43	2.42	22	0.73	SI	SI
Cypress Creek	OK410210-01-0070G	1	Riffle	W	14	6	0.12	4.07	0.66	1.64	12	0.40	MI	MI
Delaware Creek	OK410400-03-0240M	1	Riffle	S	22	8	0.55	4.42	0.48	2.37	24	0.92	NI	SI
		1	Riffle	W	23	9	0.27	5.77	0.42	2.37	24	0.92	NI	
		1	Sveg	W	16	0	0.00	3.18	0.72	1.69	8	0.29	MI	
		1	Woody	S	23	9	0.40	4.51	0.51	2.27		NR		
		2	Woody	W	9	2	0.11	4.83	0.77	1.41	9	0.35	MI	
East Fork Glover River	OK410210-09-0010G	1	Riffle	S	17	4	0.14	5.49	0.44	2.22	16	0.62	SI	SI
		1	Riffle	W	19	8	0.29	5.10	0.44	2.40	18	0.60	SI	
Goose Creek	OK410400-03-0490G	2	Riffle	W	8	2	0.09	5.55	0.84	0.98	9	0.35	MI	MI
		2	Woody	W	8	2	0.05	5.67	0.93	0.76	8	0.31	MI	
Horse Creek	OK410400-01-0040G	1	Riffle	W	7	0	0.00	5.26	0.89	1.10	8	0.31	MI	MI
Island Bayou	OK410700-00-0040G	1	Riffle	W	12	6	0.19	6.40	0.65	1.72		NR		
		1	Sveg	W	13	2	0.41	6.62	0.73	1.63		NR		
		1	Woody	W	16	3	0.25	6.70	0.58	1.94		NR		

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Leader Creek	OK410400-03-0370B	2	Riffle	S	16	5	0.42	4.42	0.61	1.89	22	0.85	NI	SI
		2	Riffle	W	13	2	0.07	6.06	0.48	1.97	13	0.50	MI	
Little West Blue Creek	OK410600-02-0100C	1	Riffle	S	19	8	0.76	4.37	0.58	2.09	24	0.92	NI	NI
		1	Sveg	S	15	6	0.53	4.90	0.44	2.24	26	1.00	NI	
		1	Woody	S	19	8	0.55	4.99	0.50	2.27		NR		
Lukfata Creek	OK410210-07-0010G	1	Riffle	W	16	3	0.43	3.79	0.62	1.87	16	0.73	SI	SI
McGee Creek	OK410400-07-0010C	1	Riffle	S	23	9	0.49	5.64	0.42	2.53	28	0.93	NI	SI
		2	Riffle	W	15	6	0.76	5.36	0.63	1.82	17	0.65	SI	
		1	Sveg	S	16	4	0.14	6.65	0.52	2.05	16	0.62	SI	
		2	Sveg	W	15	4	0.08	4.60	0.71	1.60	10	0.38	MI	
Mineral Bayou	OK410600-01-0300G	1	Riffle	S	20	6	0.48	4.28	0.76	1.73	26	1.00	NI	SI
		1	Riffle	W	10	2	0.04	6.49	0.77	1.26	9	0.35	MI	
		1	Sveg	S	22	7	0.20	5.95	0.35	2.62	26	1.00	NI	
		1	Sveg	W	15	1	0.05	6.05	0.71	1.47	12	0.46	MI	
		1	Woody	W	10	0	0.00	6.22	0.90	0.80	10	0.42	MI	
North Boggy Creek	OK410400-08-0010M	1	Riffle	S	18	8	0.54	4.24	0.45	2.28	24	0.80	SI	MI
		2	Riffle	W	14	4	0.05	6.17	0.78	1.27	11	0.42	MI	
		1	Sveg	W	11	0	0.00	6.19	0.80	1.38	10	0.38	MI	
		1	Woody	W	10	1	0.02	6.03	0.88	1.01	10	0.38	MI	
One Creek	OK410300-03-0060F	1	Riffle	S	23	6	0.31	5.12	0.44	2.44	20	0.67	SI	SI
		1	Riffle	W	19	10	0.23	5.94	0.49	2.27	24	0.92	NI	
		1	Woody	W	14	2	0.03	5.96	0.83	1.14	12	0.46	MI	
Rock Creek (McCurtain)	OK410200-03-0010G	1	Riffle	S	16	9	0.54	3.70	0.43	2.19	22	0.85	NI	SI
		1	Riffle	W	22	10	0.64	4.02	0.45	2.38	22	0.73	SI	
Rock Creek (Pushmataha)	OK410300-02-0190G	1	Riffle	W	22	7	0.29	5.33	0.33	2.68	22	0.73	SI	SI
		1	Sveg	W	18	6	0.09	5.32	0.36	2.51	18	0.69	SI	
Sand Creek	OK410700-00-0260G	2	Riffle	S	20	7	0.52	5.11	0.48	2.21		NR		
		1	Riffle	W	20	6	0.28	5.42	0.64	1.92		NR		
		2	Sveg	S	25	8	0.21	5.83	0.35	2.66		NR		
		2	Sveg	W	17	4	0.13	6.58	0.54	2.11		NR		
		1	Woody	S	29	10	0.42	5.48	0.32	2.84		NR		

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Sandy Creek	OK410600-02-0020G	1	Riffle	W	13	5	0.41	4.47	0.58	1.88	20	0.77	SI	NI
		1	Sveg	S	25	8	0.44	5.34	0.45	2.51	28	1.08	NI	
		2	Sveg	W	20	5	0.19	5.61	0.46	2.29	20	0.77	SI	
		1	Woody	S	27	10	0.55	5.10	0.36	2.72	30	1.07	NI	
		2	Woody	W	13	5	0.18	5.57	0.60	1.80	19	0.79	SI	
Sulphur Creek	OK410600-01-0030G	1	Woody	W	9	1	0.01	6.58	0.90	0.90	10	0.42	MI	MI
Tenmile Creek	OK410300-03-0270C	1	Riffle	S	13	6	0.37	4.81	0.48	2.08	16	0.53	SI	MI
		2	Riffle	W	15	6	0.20	5.27	0.61	1.81	15	0.58	SI	
		1	Woody	W	7	2	0.08	5.71	0.89	0.68	8	0.31	MI	
Terrapin Creek	OK410210-02-0150G	1	Riffle	S	11	2	0.25	5.12	0.61	1.68	14	0.54	SI	SI
		1	Riffle	W	22	14	0.71	4.41	0.50	2.33	26	0.87	NI	
Waterhole Creek	OK410100-01-0340D	1	Riffle	S	12	3	0.38	5.10	0.61	1.74	18	0.69	SI	SI
West Fork Glover River	OK410210-08-0010M	1	Riffle	S	17	5	0.18	5.37	0.39	2.26	18	0.69	SI	SI
		1	Riffle	W	16	9	0.63	4.67	0.43	2.32	20	0.67	SI	
Whitegrass Creek	OK410400-01-0210G	1	Riffle	W	12	2	0.12	5.65	0.85	1.04	12	0.46	MI	MI
		1	Sveg	W	9	2	0.07	5.97	0.86	0.90	8	0.31	MI	
		1	Woody	W	7	3	0.05	6.10	0.91	0.65	8	0.33	MI	

Most fixed sites had either non-impaired or slightly impaired macroinvertebrate communities overall (when averaging the scores across sample types). The following sites were moderately impaired overall: Caddo, Cedar, Cypress, Goose, Horse, North Boggy, Sulphur, Tenmile and Whitegrass Creeks. Results for the fixed sites indicate non-impaired macroinvertebrate communities in 17% of the sites, slightly impaired communities in 57% of the sites, and moderately impaired communities in 26% of the sites.

The overall results for the probabilistic sites are shown in Table 23. All of the probabilistic sites were scored using only one macroinvertebrate collection. One of the 27 sites indicated a moderately impaired macroinvertebrate community (4%): Coon Creek. Sixty-three percent of the probabilistic sites indicated non-impaired communities and 33% indicated slightly impaired communities.

Table 21. Macroinvertebrate metric values determined for each probabilistic monitoring site, averaged per season and habitat. NI = non-impaired, SI = slightly impaired, MI = moderately impaired, NR = No Reference.

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Blue River (025)	OKLRED-025	1	Riffle	S	18	9	0.68	5.55	0.41	2.37	26	1.00	NI	NI
		1	Sveg	S	26	9	0.27	4.87	0.36	2.75	28	1.08	NI	
Blue River (034)	OKLRED-034	1	Riffle	S	20	9	0.28	4.82	0.40	2.43	26	1.00	NI	NI
Blue River (086)	OKLRED-086	1	Riffle	S	20	8	0.36	4.79	0.41	2.35	26	1.00	NI	SI
		1	Woody	S	13	4	0.10	6.23	0.57	1.92	12	0.43	MI	
Bois d' Arc Creek (009)	OKLRED-009	1	Riffle	S	16	6	0.56	4.97	0.42	2.16	18	0.69	SI	SI
		1	Woody	S	16	5	0.38	5.34	0.38	2.25		NR		
Bois d' Arc Creek (131)	OKLRED-131	1	Riffle	S	20	8	0.22	4.81	0.66	1.81	24	0.92	NI	NI
		1	Sveg	S	23	6	0.23	6.35	0.44	2.44	22	0.85	NI	
Boktuklo Creek	OKLRED-110	1	Riffle	S	28	13	0.46	4.74	0.30	2.84	32	1.23	NI	NI
Caney Boggy Creek	OKLRED-005	1	Riffle	S	13	5	0.54	4.66	0.63	1.85	20	0.77	SI	NI
		1	Woody	S	16	4	0.37	4.89	0.54	2.00	22	0.85	NI	
Cedar Creek (046)	OKLRED-046	1	Riffle	S	15	9	0.81	4.20	0.44	2.22	24	0.92	NI	NI
Cedar Creek (082)	OKLRED-082	1	Riffle	S	16	7	0.65	4.22	0.51	2.10	22	0.85	NI	NI
Chickasaw Creek	OKLRED-019	1	Riffle	S	17	7	0.62	5.32	0.41	2.26	20	0.67	SI	SI
Clear Boggy Creek (053)	OKLRED-053	1	Riffle	S	13	4	0.39	5.59	0.58	1.86	16	0.62	SI	SI
		1	Sveg	S	17	4	0.08	6.54	0.42	2.17	14	0.54	SI	
		1	Woody	S	12	2	0.10	6.55	0.51	2.00		NR		
Clear Boggy Creek (075)	OKLRED-075	1	Riffle	S	18	11	0.67	4.65	0.45	2.26	26	1.00	NI	NI
		1	Sveg	S	24	13	0.61	4.70	0.31	2.69	30	1.15	NI	
		1	Woody	S	17	6	0.25	5.92	0.48	2.23	24	0.92	NI	
Clear Boggy Creek (094)	OKLRED-094	1	Woody	S	19	8	0.36	5.92	0.45	2.32	26	0.93	NI	NI
Clear Boggy Creek (097)	OKLRED-097	1	Riffle	S	15	7	0.23	4.41	0.54	2.04	24	0.92	NI	NI
Coon Creek	OKLRED-010	1	Riffle	S	11	1	0.03	4.26	0.79	1.47	8	0.27	MI	MI
Cucumber Creek (118)	OKLRED-118	1	Riffle	S	20	8	0.36	4.92	0.30	2.51	30	1.15	NI	NI
Cypress Creek (072)	OKLRED-072	1	Riffle	S	26	5	0.28	5.76	0.30	2.71	22	0.85	NI	NI
Dry Creek (054)	OKLRED-054	1	Riffle	S	20	7	0.74	4.26	0.62	1.92	22	0.73	SI	SI
East Fork Glover River	OKLRED-015	1	Riffle	S	15	4	0.40	4.39	0.50	2.18	18	0.69	SI	SI
Glover River	OKLRED-048	1	Riffle	S	18	9	0.51	4.07	0.55	2.08	26	1.00	NI	NI
Kiamichi River (014)	OKLRED-014	1	Riffle	S	22	14	0.76	4.49	0.44	2.42	26	0.87	NI	NI
		1	Sveg	S	22	8	0.59	4.61	0.35	2.54	30	1.15	NI	
McGee Creek (023)	OKLRED-023	1	Riffle	S	11	5	0.49	4.94	0.46	1.98	16	0.53	SI	SI
McGee Creek (051)	OKLRED-051	1	Riffle	S	9	4	0.65	5.13	0.78	1.32	14	0.47	MI	SI
		1	Sveg	S	24	4	0.11	5.87	0.47	2.35	16	0.62	SI	

Site Name	WBID	# of Samples	Type	Winter or summer	Total Species	EPT Taxa	Percent EPT	HBI	Percent dominant 2 taxa	Shannon Diversity	Total Points	% of Reference	Condition	Average Condition
Sandy Creek (041)	OKLRED-041	1	Riffle	S	16	8	0.52	5.44	0.44	2.18	26	1.00	NI	NI
		1	Sveg	S	25	7	0.36	6.08	0.39	2.55	30	1.15	NI	
Turkey Creek (037)	OKLRED-037	1	Riffle	S	11	5	0.67	5.43	0.53	1.87	20	0.77	SI	NI
		1	Woody	S	12	5	0.57	6.44	0.64	1.80	26	1.00	NI	
Turkey Creek (111)	OKLRED-111	1	Riffle	S	16	4	0.21	6.68	0.42	2.16	18	0.69	SI	SI
West Fork Glover River (077)	OKLRED-077	1	Riffle	S	18	7	0.28	5.37	0.36	2.45	24	0.92	NI	NI

Poor macroinvertebrate scores could indicate water quality problems where habitat scores are acceptable; however, it is possible that the macroinvertebrate collection was not taken at a time which would best represent the community there (i.e., drought influences). Hence, the macroinvertebrate scores should be examined in conjunction with habitat and fish scores to better represent the general health of the stream.

3.2.4 Overall Biological Assessment

In order to synthesize the biological findings into a meaningful representation of the overall quality of each site, the biological assessments were compared with the habitat and water chemistry results. For the fixed sites, a water quality score was computed similarly to the other index scores by comparing rotating basin site values relative to high quality site values. The parameters included in this score were phosphorus, nitrogen, DO, turbidity, and salts (TDS, chloride, and sulfate). Then, the habitat, fish, macroinvertebrate, and water quality scores (relative to the mean of high quality sites in the respective ecoregions) were examined in concert with one another (Figure 8). The water quality index score was calculated for the probabilistic sites, but often only a single sample was obtained; Figure 9 shows the habitat, fish, and macroinvertebrate scores for each site relative to the average score of high quality sites in that ecoregion.

A determination of “good” or “excellent” stream health is indicated by a relatively high score for all categories. Most streams had relatively good agreement among the categories, but there are instances where one score is quite different than the others. It is generally recognized that fish communities are especially sensitive to habitat degradation and that macroinvertebrates more quickly integrate effects of water quality decline. Thus, sites with a high habitat and fish score yet a low macroinvertebrate and water chemistry score could indicate potential water quality impairment. Examples of this would be North Boggy and Tenmile Creeks in the OM ecoregion and Horse Creek in the SCP ecoregion. Low habitat scores correlated with low fish scores yet high bug scores could indicate habitat impairments despite good water quality.

Many of the sites sampled during this rotation have macroinvertebrate collections that indicate poorer conditions than the rest of the parameters. This could reflect the drought conditions during the period of the rotation. These generalizations will be reassessed each cycle of the Rotating Basin project. It is possible that the reach examined for these assessments is not representative of the whole stream, so that habitat is better at other areas of the stream than the area sampled. Also, the drought conditions under which most of the fish and habitat collections were obtained do not represent typical Oklahoma conditions. Habitat scores in particular may have been skewed lower during this sampling period relative to the reference sampling period due to the drought.

Figure 8. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for fixed sites relative to the average high quality site in each ecoregion.

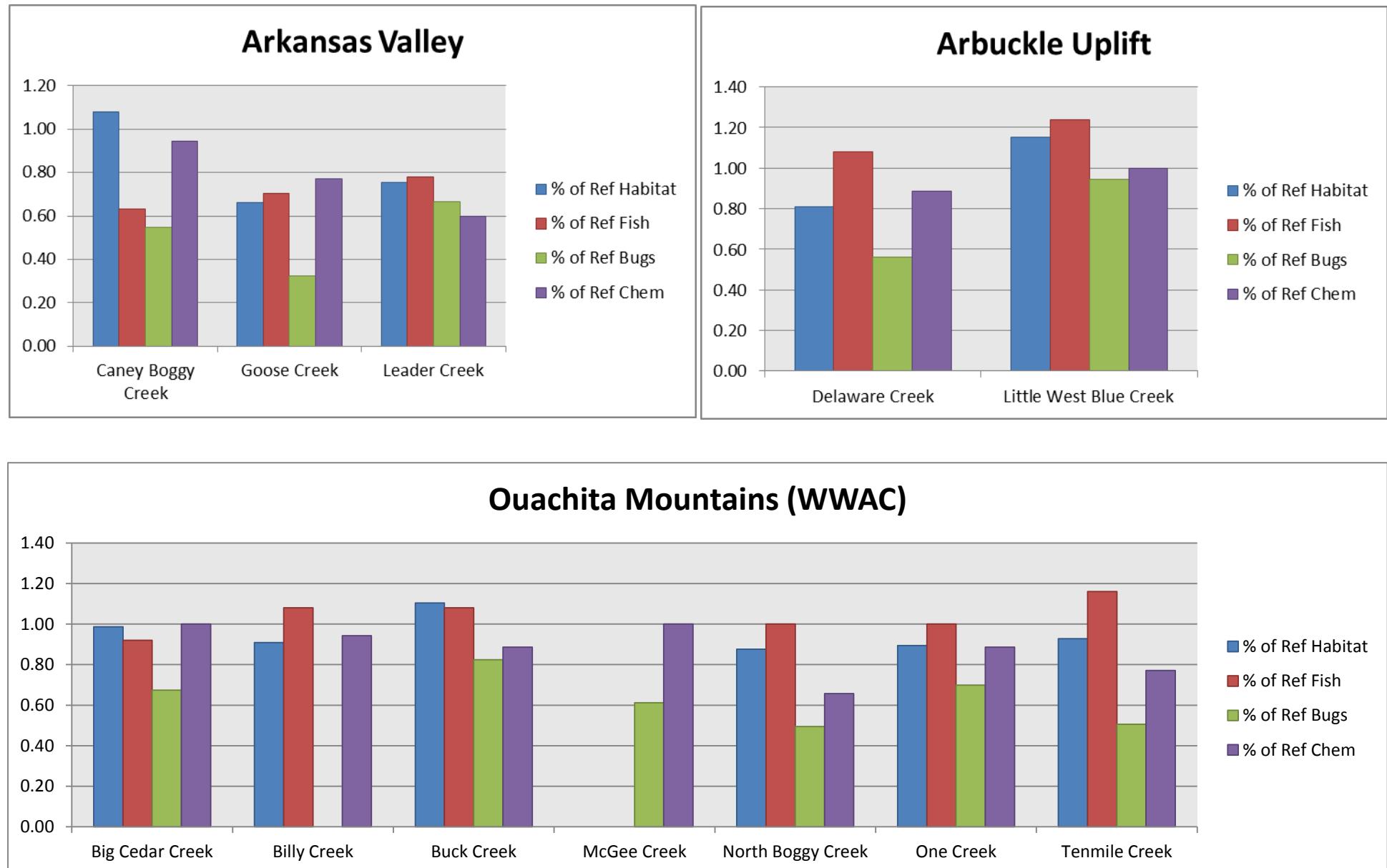


Figure 8, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for fixed sites relative to the average high quality site in each ecoregion.

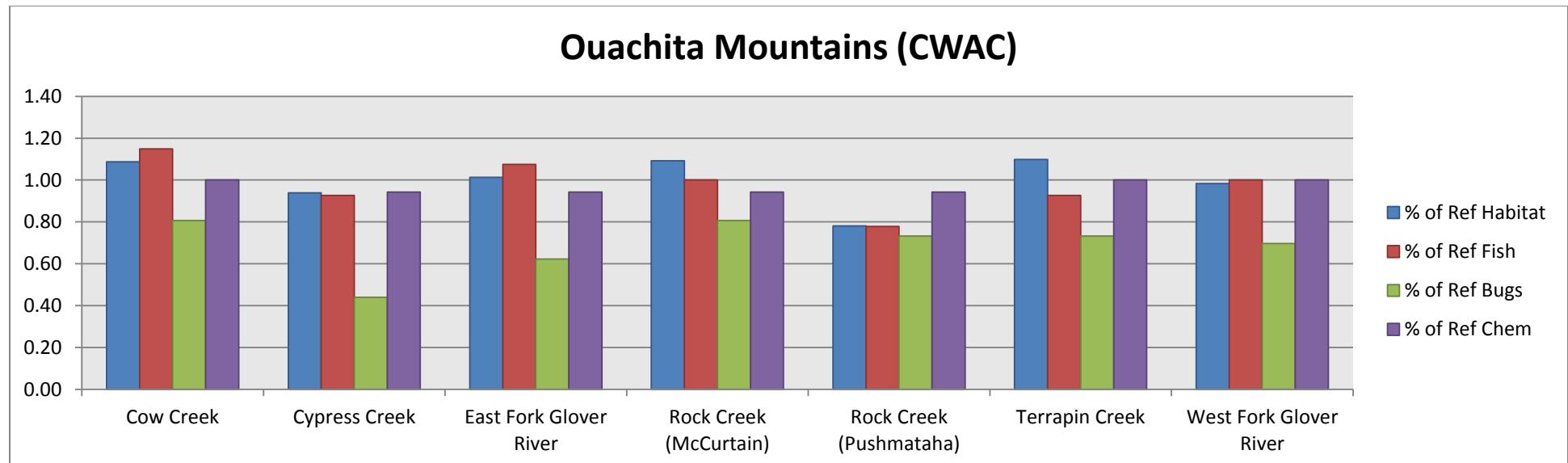
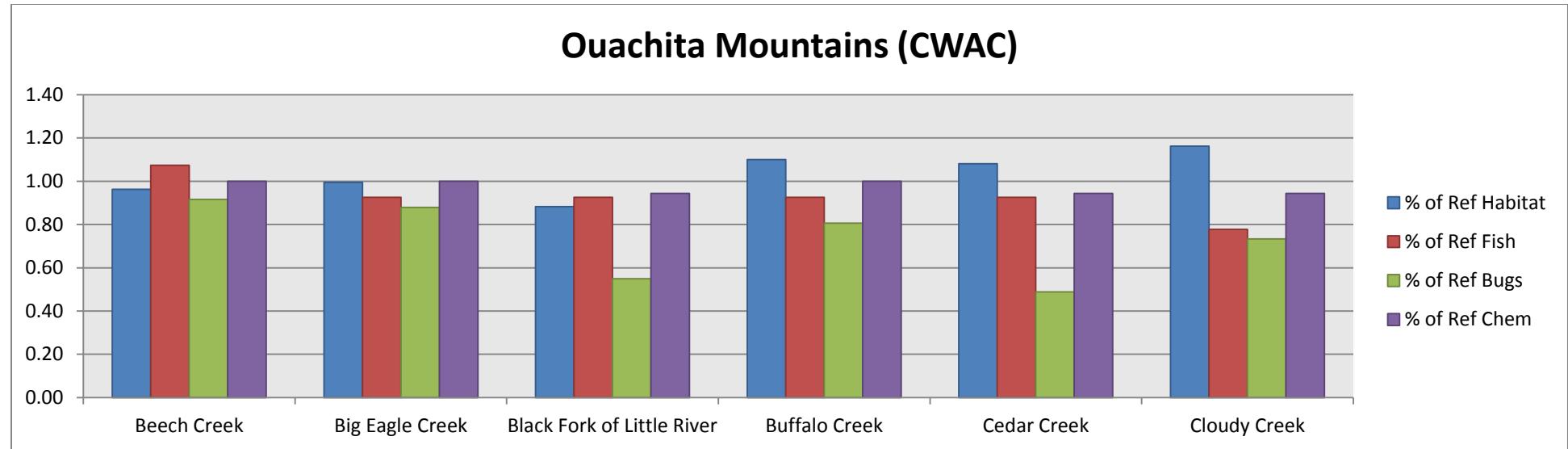
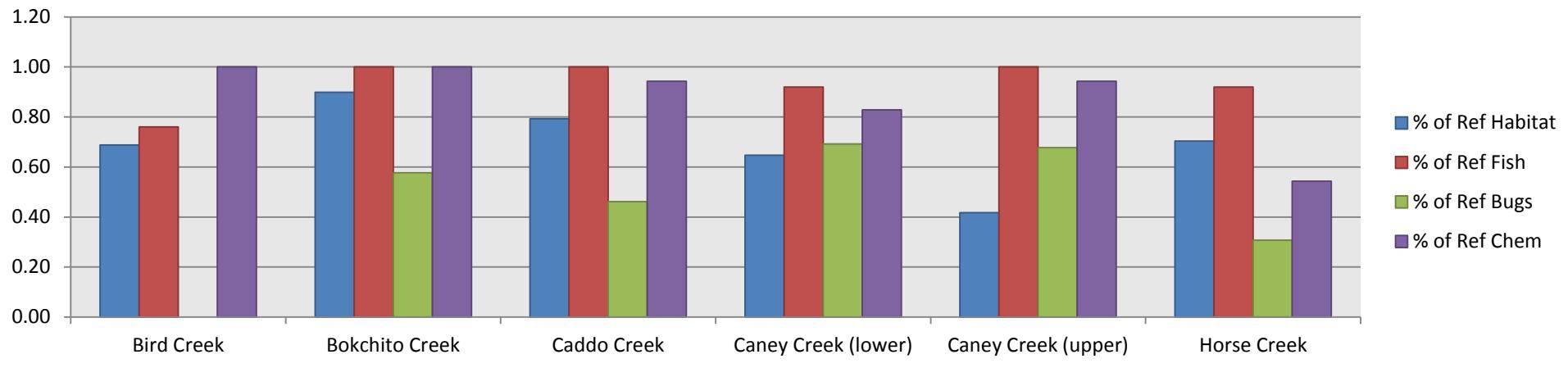


Figure 8, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for fixed sites relative to the average high quality site in each ecoregion.

South Central Plains (WWAC)



South Central Plains (WWAC)

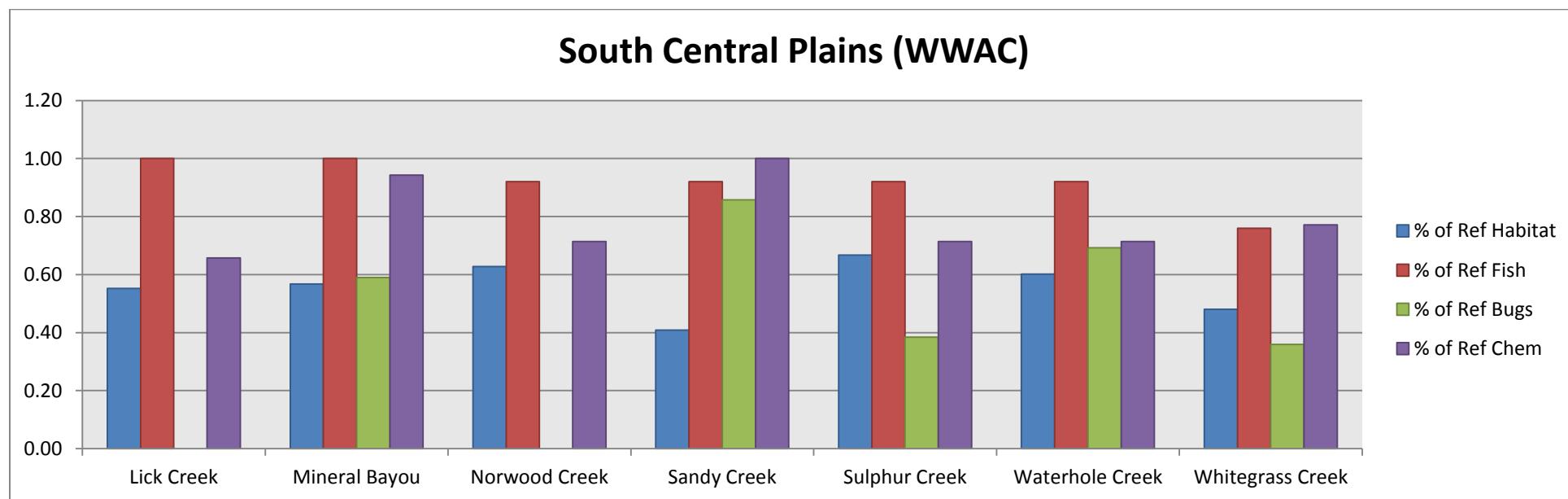


Figure 8, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for fixed sites relative to the average high quality site in each ecoregion.

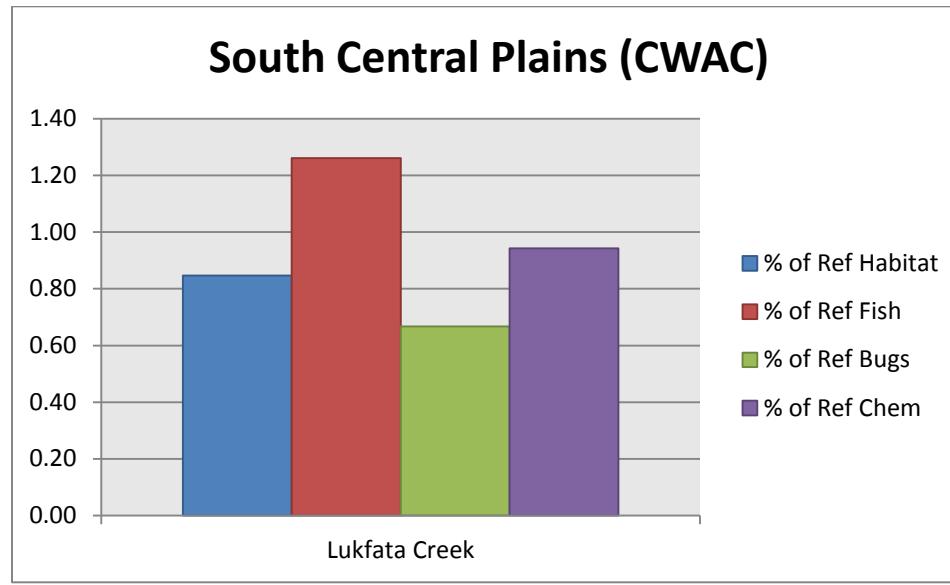


Figure 9. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for probabilistic sites relative to the average high quality sites in each ecoregion.

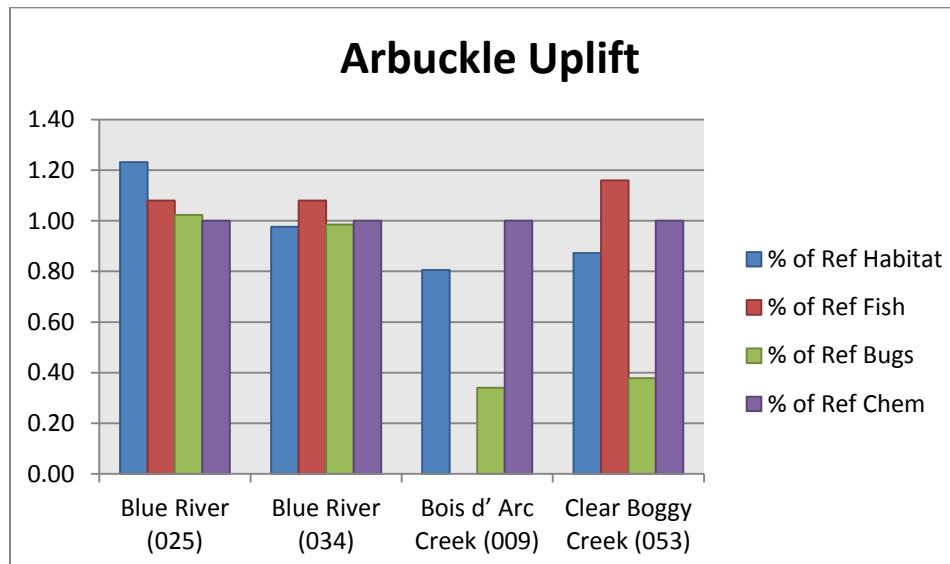
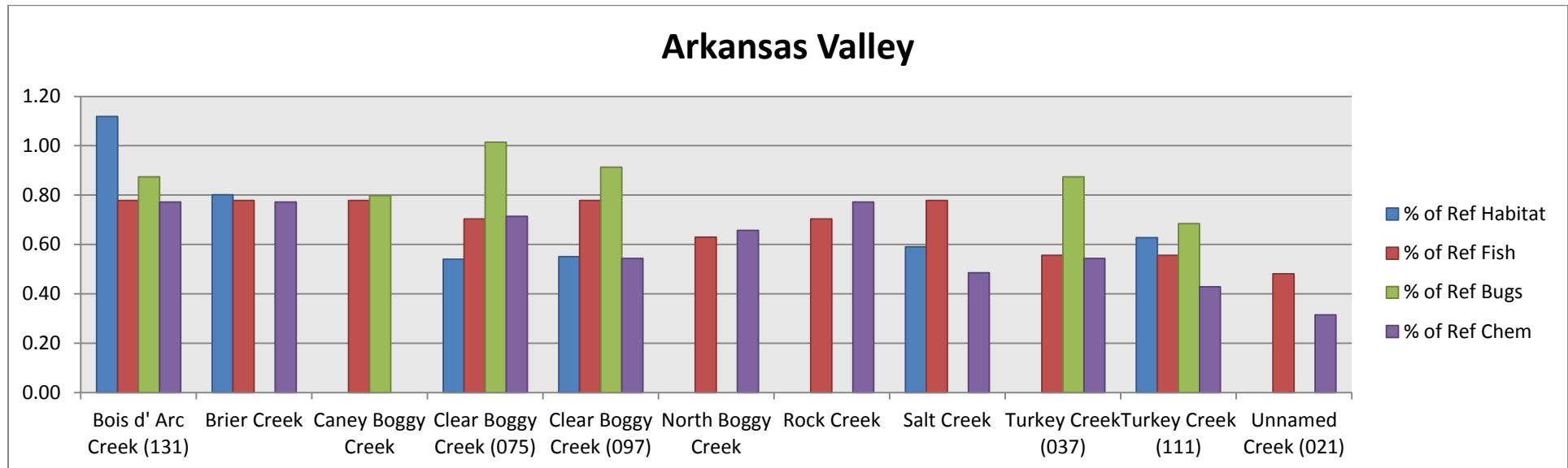
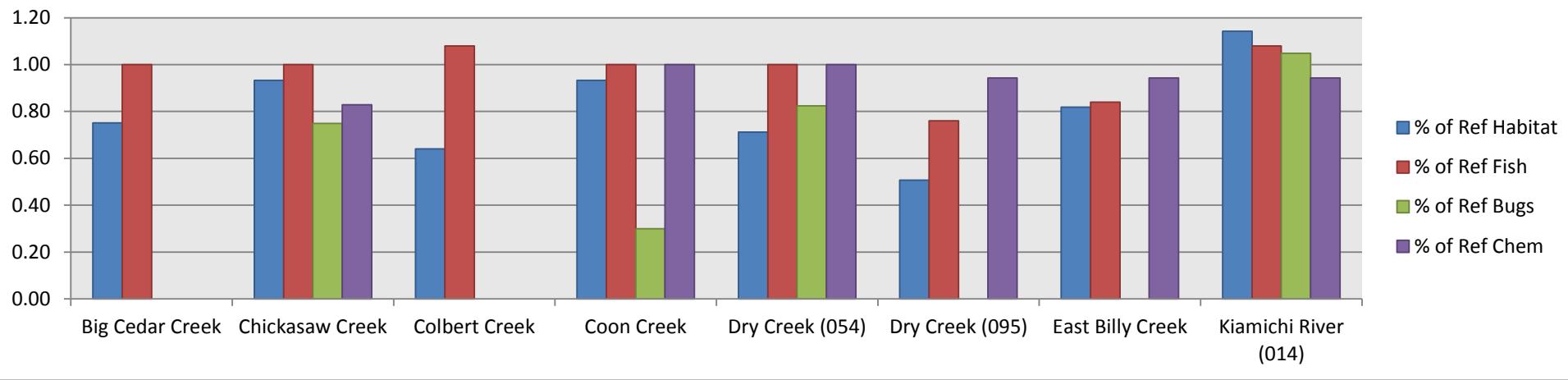


Figure 9, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for probabilistic sites relative to the average high quality sites in each ecoregion.

Ouachita Mountains (WWAC)



Ouachita Mountains (WWAC)

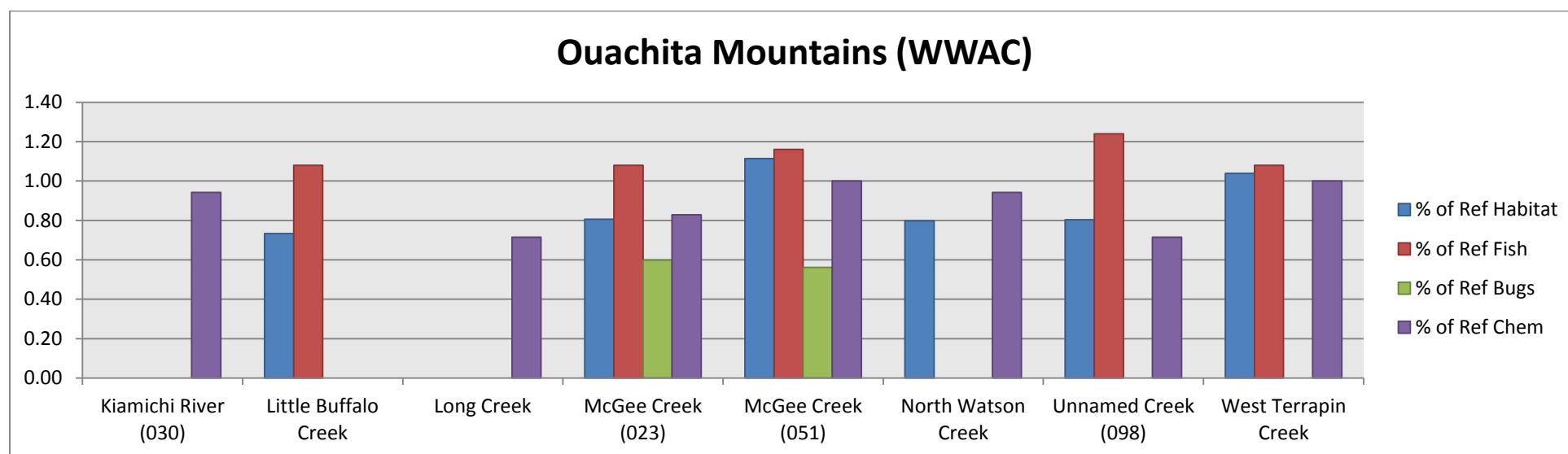
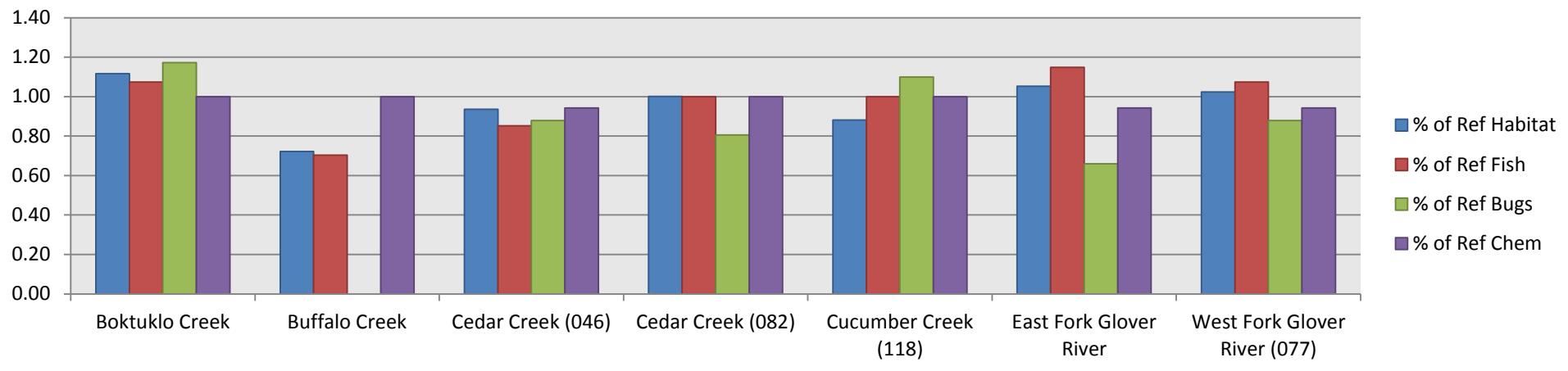


Figure 9, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for probabilistic sites relative to the average high quality sites in each ecoregion.

Ouachita Mountains (CWAC)



South Central Plains (WWAC)

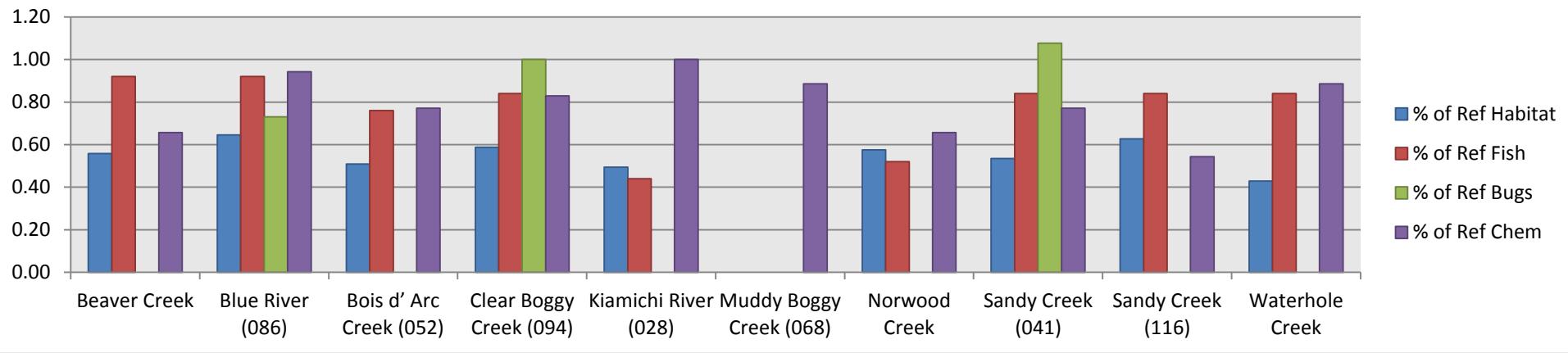
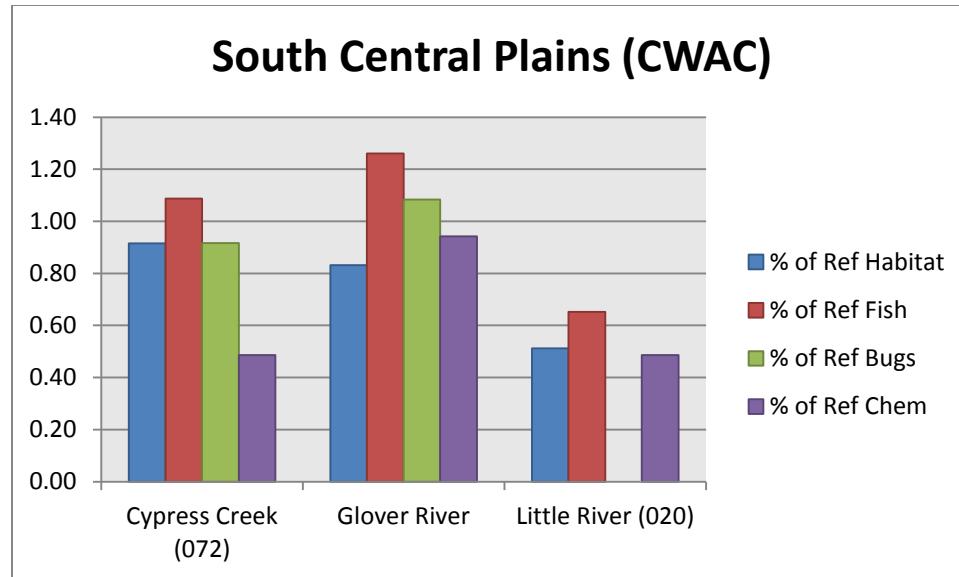


Figure 9, cont. Comparison of habitat, fish, macroinvertebrate, and chemistry scores for probabilistic sites relative to the average high quality sites in each ecoregion.



3.3 WATERSHED ASSESSMENT

Table 24 shows the landuse upstream of each monitoring site as obtained through GIS using the 2006 National Land Cover Data set produced by the Multi-Resolution Land Characterization (MRLC) consortium. Over 50% of the land in the Lower Red basin is forest. Approximately 19% is grassland, and another 17% is pasture. There is very little development in the area (4%). Table 25 presents the types and number of permitted activities that occur in the watershed upstream of each site. Nine sites had no permitted activities in the watershed: Beech, Big Eagle, Buffalo, Cloudy, Cow, Cypress, Lukfata, Rock (McCurtain), and Terrapin Creeks.

Seven sites had national pollution discharge elimination systems (NPDES) in the watershed. To examine the effects of point source versus non-point source pollution on parameters at the monitoring sites, one-way ANOVAs were performed comparing sites with an NPDES to sites with no NPDES. Table 26 shows the results: nearly all of the parameters are significantly lower in the sites with no permitted discharge.

In general, the most common landuses at sites with high nutrient levels were pasture and evergreen forest (forestry). It is possible that logging, pasture management practices, and/or oil and gas activities are contributing to nutrients, high TSS, and turbidity. Sixty-nine percent of the Horse Creek watershed is pastureland, and the City of Hugo land-applies its sludge in the watershed. These are potential sources of the high nutrients as well as the high levels of bacteria observed. The fish community in Horse Creek is “excellent”, but the macroinvertebrate collection was moderately impaired, perhaps reflecting the poor water quality.

The effects of the drought make it hard to accurately explain the results seen in this cycle of the Rotating Basin Project. Habitat assessments are not likely to be representative of normal conditions in this area. Many fixed sites did not have the complete cycle of two summer and two winter macroinvertebrate collections; many probabilistic sites did not have a collection at all. It appears that some watersheds with NPDES permits did not have enough natural flow to “dilute” the effects of the discharges. In other watersheds the discharges may have kept the creek flowing. Sites in this basin will be resampled starting in 2015, and it will be important to examine results under what will hopefully be more representative climatic conditions.

Table 4. Watershed landuse for each fixed monitoring site.

Site Name	WBID	Barren Land (Rock/Sand/Clay)	Cultivated Crops	Deciduous Forest	Developed, High Intensity	Developed, Low Intensity	Developed, Medium Intensity	Developed, Open Space	Emergent Herbaceous Wetlands	Evergreen Forest	Grassland/ Herbaceous	Mixed Forest	Open Water	Pasture/Hay	Shrub/Scrub	Woody Wetlands	Total Acres
Beech Creek	OK410210-06-0320G			50.82%				1.82%		36.62%	3.23%	5.65%			1.82%	0.04%	14,777
Big Cedar Creek	OK410310-02-0100D			38.02%		0.24%		7.07%		48.22%	0.50%	5.88%		0.06%			5,222
Big Eagle Creek	OK410210-06-0160L			59.90%		0.19%		3.58%		21.11%	2.67%	10.03%	0.03%		2.05%	0.44%	31,492
Billy Creek	OK410310-02-0070C			15.31%		0.01%		2.23%		74.59%	0.58%	3.56%	0.01%	3.66%	0.04%	0.01%	13,760
Bird Creek	OK410300-01-0100C	0.54%	0.64%	12.38%	0.09%	0.51%	0.22%	4.33%		6.42%	8.79%	10.20%	2.33%	51.68%	1.69%	0.18%	9,046
Black Fork of Little River	OK410210-03-0020C	0.01%		26.77%		0.13%	0.00%	3.19%		45.57%	5.73%	6.73%	0.02%	4.54%	7.12%	0.19%	45,153
Bokchito Creek	OK410600-01-0090G		1.07%	19.96%		0.12%	0.03%	4.26%		0.30%	32.08%		0.30%	41.87%			15,371
Buck Creek	OK410310-03-0420C	0.01%		31.52%		0.28%	0.05%	2.35%	0.00%	35.97%	4.67%	6.75%	0.08%	14.96%	2.68%	0.66%	67,007
Buffalo Creek	OK410210-06-0020G	0.02%		30.78%		0.28%		4.86%	0.01%	33.51%	8.73%	11.33%	0.03%	5.67%	4.65%	0.13%	40,727
Caddo Creek	OK410600-01-0140G	0.04%	0.21%	23.79%	0.01%	0.37%	0.10%	4.49%		0.23%	38.46%		0.48%	31.81%			24,866
Caney Boggy Creek	OK410400-06-0120G	0.09%	1.23%	46.48%	0.00%	0.01%	0.00%	3.06%	0.01%	0.99%	22.28%		1.01%	24.82%		0.01%	57,841
Caney Creek (lower)	OK410400-02-0200G	0.06%	0.08%	40.64%		0.00%	0.01%	3.68%	0.02%	0.01%	24.24%		0.33%	30.95%			19,252
Caney Creek (upper)	OK410400-03-0020C	0.01%	0.59%	40.62%	0.00%	0.55%	0.14%	3.38%	0.03%	0.34%	38.83%		0.85%	14.67%			30,235
Cedar Creek	OK410300-03-0020M			25.41%		0.16%		2.77%	0.00%	39.72%	11.12%	8.40%	0.03%	6.71%	5.13%	0.55%	64,280
Cloudy Creek	OK410210-02-0300C	0.01%		22.56%		0.12%		3.00%		41.16%	16.75%	3.76%	0.01%	0.99%	11.43%	0.23%	36,266
Cow Creek	OK410210-06-0350G			35.84%				2.96%		52.50%	3.46%	2.56%	0.04%	2.15%	0.47%		7,236
Cypress Creek	OK410210-01-0070G			17.82%		0.50%		4.59%		44.52%	8.90%	7.56%			16.00%	0.11%	18,809
Delaware Creek	OK410400-03-0240M	0.17%	1.84%	39.34%		0.02%	0.01%	2.73%	0.01%	0.30%	35.57%		0.71%	19.30%			31,040
East Fork Glover River	OK410210-09-0010G			17.76%		0.34%	0.00%	5.75%		51.52%	6.15%	7.40%	0.01%	4.19%	6.56%	0.33%	36,393
Goose Creek	OK410400-03-0490G		0.60%	42.81%		0.00%		1.67%	0.01%	0.04%	36.36%		0.98%	17.52%			18,746
Horse Creek	OK410400-01-0040G	0.23%		9.95%	0.08%	3.50%	0.61%	9.35%		1.02%	1.56%	4.48%	0.37%	68.82%		0.04%	12,834
Island Bayou	OK410700-00-0040G	0.05%	2.37%	17.14%	0.09%	0.39%	0.19%	3.42%	0.07%	0.22%	34.04%	4.64%	0.97%	35.87%	0.27%	0.28%	84,972
Leader Creek	OK410400-03-0370B	0.01%	0.06%	35.05%		0.20%	0.01%	4.08%	0.01%	0.04%	39.56%		0.92%	20.07%			59,267

Site Name	WBID	Barren Land (Rock/Sand/Clay)	Cultivated Crops	Deciduous Forest	Developed, High Intensity	Developed, Low Intensity	Developed, Medium Intensity	Developed, Open Space	Emergent Herbaceous Wetlands	Evergreen Forest	Grassland/ Herbaceous	Mixed Forest	Open Water	Pasture/Hay	Shrub/Scrub	Woody Wetlands	Total Acres
Lick Creek	OK410400-01-0130G			26.89%	0.01%	0.17%	0.06%	4.51%	0.03%	0.02%	12.97%	0.70%	0.35%	54.28%		0.01%	19,969
Little West Blue Creek	OK410600-02-0100C	0.16%	2.34%	15.86%	0.01%	0.32%	0.03%	2.44%		0.01%	64.80%		0.26%	13.77%			73,729
Lukfata Creek	OK410210-07-0010G	0.04%	0.05%	25.60%		0.42%	0.01%	5.75%		32.06%	6.15%	6.95%	0.05%	19.10%	3.66%	0.18%	29,150
McGee Creek	OK410400-07-0010C	0.03%	0.03%	37.04%		0.01%	0.00%	1.18%	0.00%	22.52%	13.91%	4.97%	2.96%	11.93%	4.87%	0.55%	114,347
Mineral Bayou	OK410600-01-0300G	0.36%	1.30%	22.13%	1.74%	6.72%	2.27%	9.88%		0.27%	33.18%		0.55%	21.58%		0.02%	24,870
North Boggy Creek	OK410400-08-0010M	0.13%	0.17%	53.46%	0.02%	0.50%	0.12%	3.84%	0.36%	1.55%	18.33%	0.79%	4.63%	14.63%	1.27%	0.20%	112,512
Norwood Creek	OK410100-01-0050H	0.03%	1.06%	19.31%	0.00%	0.13%	0.04%	3.08%	1.03%	31.66%	6.67%	7.91%	0.93%	21.06%	0.62%	6.49%	38,430
One Creek	OK410300-03-0060F			26.73%	0.00%	0.11%		3.15%		35.30%	8.83%	9.33%	0.02%	4.13%	11.84%	0.56%	27,494
Rock Creek (McCurtain)	OK410200-03-0010G			30.73%		0.67%	0.02%	5.16%		21.82%	9.31%	24.98%	0.07%		6.99%	0.24%	29,713
Rock Creek (Pushmataha)	OK410300-02-0190G			30.32%		0.10%	0.02%	2.45%		21.37%	28.61%	4.61%	0.26%	1.38%	10.42%	0.45%	21,207
Sand Creek	OK410700-00-0260G	1.47%	8.97%	23.11%	0.00%	0.76%	0.09%	4.61%	0.06%	0.73%	34.11%		1.70%	24.39%			11,750
Sandy Creek	OK410600-02-0020G	0.09%	3.73%	38.58%	0.01%	0.06%	0.04%	3.26%		0.13%	35.72%		0.35%	18.02%		0.01%	25,091
Sulphur Creek	OK410600-01-0030G	0.02%	0.81%	30.93%		0.26%	0.06%	5.56%		0.07%	27.85%		0.54%	33.91%			15,898
Tenmile Creek	OK410300-03-0270C		0.03%	29.27%		0.44%	0.19%	3.11%	0.00%	14.61%	12.48%	5.90%	0.05%	31.02%	2.46%	0.44%	63,631
Terrapin Creek	OK410210-02-0150G			17.41%		0.28%		3.62%	0.00%	57.06%	8.94%	5.42%	0.02%		7.04%	0.20%	32,794
Waterhole Creek	OK410100-01-0340D	0.03%	4.91%	13.40%		0.46%	0.02%	5.06%		0.55%	1.44%	2.86%	0.75%	70.21%	0.03%	0.27%	19,029
West Fork Glover River	OK410210-08-0010M	0.00%		17.70%		0.28%	0.01%	5.54%	0.02%	49.91%	6.37%	7.00%	0.03%	6.61%	6.17%	0.36%	115,233
Whitegrass Creek	OK410400-01-0210G	0.02%	0.09%	37.27%		0.01%	0.01%	3.25%	0.03%	0.08%	20.67%	0.44%	0.45%	37.67%		0.01%	40,878

Table 25. Permitted landuse for each fixed site.

Site Name	WBID	# CAFO	# Landfill	# NPDES Permits	# O&G	# Total Retention Lagoon	# Land Application
Big Cedar Creek	OK410310-02-0100D				2		
Billy Creek	OK410310-02-0070C				1		
Bird Creek	OK410300-01-0100C			6	1		
Black Fork of Little River	OK410210-03-0020C				3		
Bokchito Creek	OK410600-01-0090G				2		
Buck Creek	OK410310-03-0420C				68		
Caddo Creek	OK410600-01-0140G			1	4		
Caney Boggy Creek	OK410400-06-0120G	3			462		
Caney Creek (lower)	OK410400-02-0200G				4		
Caney Creek (upper)	OK410400-03-0020C				3	2	
Cedar Creek	OK410300-03-0020M				3		
Delaware Creek	OK410400-03-0240M	1			18		
East Fork Glover River	OK410210-09-0010G	1					
Goose Creek	OK410400-03-0490G				34		
Horse Creek	OK410400-01-0040G			3	1	1	
Island Bayou	OK410700-00-0040G			3	11		
Leader Creek	OK410400-03-0370B				305		
Lick Creek	OK410400-01-0130G				3		
Little West Blue Creek	OK410600-02-0100C			5	9	2	1
McGee Creek	OK410400-07-0010C				170		
Mineral Bayou	OK410600-01-0300G		1	2	31	1	
North Boggy Creek	OK410400-08-0010M			8	252		
Norwood Creek	OK410100-01-0050H				7		
One Creek	OK410300-03-0060F				1		
Rock Creek (Pushmataha)	OK410300-02-0190G				7		
Sand Creek	OK410700-00-0260G				6		
Sandy Creek	OK410600-02-0020G				2	1	
Sulphur Creek	OK410600-01-0030G				3	1	
Tenmile Creek	OK410300-03-0270C				96		
Waterhole Creek	OK410100-01-0340D				26		
West Fork Glover River	OK410210-08-0010M	1					
Whitegrass Creek	OK410400-01-0210G				8		

Table 22. Comparison of sites with and without NPDES permits based on one-way ANOVAs.

Parameter	NPDES Permit?	N	Mean	StDev	P Value	Result
Alkalinity	No	779	73.4	74.05	0.000	Lower
	Yes	131	169	80.72		
Chloride	No	713	18.7	37.38	0.007	Lower
	Yes	124	28.2	28.89		
Conductivity	No	777	220	275.3	0.000	Lower
	Yes	128	602	776.9		
DO % Saturation	No	749	74	33.59	0.001	Lower
	Yes	120	89.2	89.01		
Hardness	No	741	96.4	113.3	0.000	Lower
	Yes	125	307	268		
Available N	No	713	0.31	0.768	0.000	Lower
	Yes	124	0.62	1.126		
Total N	No	713	0.95	1.369	0.015	Lower
	Yes	124	1.27	1.242		
pH	No	774	7.1	3.334	0.102	No Significant Difference
	Yes	127	7.58	0.375		
OrthoP	No	713	0.03	0.092	0.000	Lower
	Yes	122	0.08	0.181		
Total P	No	713	0.06	0.11	0.000	Lower
	Yes	124	0.13	0.248		
TDS	No	713	143	145.1	0.000	Lower
	Yes	124	419	441.3		
TSS	No	713	13.6	29.24	0.829	No Significant Difference
	Yes	124	13	12.83		
Turbidity	No	779	17.9	47.81	0.727	No Significant Difference
	Yes	130	16.4	36.51		
Flow	No	685	29.7	535.6	0.781	No Significant Difference
	Yes	116	15.8	82.7		

3.4 DESIGNATED USE SUPPORT ASSESSMENT

The designated uses assessed for the monitoring sites are presented below, along with the current attainment status of each use (based on OCC assessment results submitted for the 2012 Integrated Report). The causes and potential source(s) (if known) of any impairments are presented in Appendix D.1, and the key for the cause and source codes is given in Appendix D.2.

Table 7. Beneficial use support assessment. F = fully supporting, N = not supporting, I = insufficient information, X = use not assessed.

Site Name	WBID	Cool Water Aquatic Community	Warm Water Aquatic Community	Primary Body Contact (Recreation)	Secondary Body Contact Recreation	Aesthetics	Agriculture	Emergency Water Supply	Fish Consumption	Sensitive Water Supply	High Quality Water	Public/Private Water Supply	Outstanding Resource
Beech Creek	OK410210-06-0320G	N		I		F	F		X			X	X
Big Cedar Creek	OK410310-02-0100D		N	I		F	F		X				
Big Eagle Creek	OK410210-06-0160L	N		I		F	F		X			X	X
Billy Creek	OK410310-02-0070C		N	I		I	F		X				
Bird Creek	OK410300-01-0100C		I	I		F	F		X			I	
Black Fork of Little River	OK410210-03-0020C	N		I		I	F		X		X	X	
Bokchito Creek	OK410600-01-0090G		I	I		F	F		X				
Buck Creek	OK410310-03-0420C		N	I		I	F		X			X	
Buffalo Creek	OK410210-06-0020G	N		I		F	F		X	X		X	
Caddo Creek	OK410600-01-0140G		N	I		F	F		X				
Caney Boggy Creek	OK410400-06-0120G		N	I		F	F		X			X	
Caney Creek (lower)	OK410400-02-0200G		N	I		F	F		X				
Caney Creek (upper)	OK410400-03-0020C		F		I	I	F		X				
Cedar Creek	OK410300-03-0020M	X		X		X	X		X		X	X	
Cloudy Creek	OK410210-02-0300C	N		I		F	F		X		X	X	
Cow Creek	OK410210-06-0350G	N		I		F	F		X			X	X
Cypress Creek	OK410210-01-0070G	N		I		I	F		X		X	X	
Delaware Creek	OK410400-03-0240M		F	I		I	F		X			X	
East Fork Glover River	OK410210-09-0010G	N		I		F	F		F		F	F	
Goose Creek	OK410400-03-0490G		N	I		F	F		X				
Horse Creek	OK410400-01-0040G		N	I		I	F		X			X	
Island Bayou	OK410700-00-0040G		I		I	I	N	F	X				
Leader Creek	OK410400-03-0370B		N	I		I	F		X				
Lick Creek	OK410400-01-0130G		N	I		F	F		X			X	
Little West Blue Creek	OK410600-02-0100C		F	I		F	F		X				
Lukfata Creek	OK410210-07-0010G	N		I		F	F		X		X	X	
McGee Creek	OK410400-07-0010C		N	I		I	F		X	X		X	
Mineral Bayou	OK410600-01-0300G		N	I		F	F	F	X				
North Boggy Creek	OK410400-08-0010M		X	X		X	X		X	X		X	
Norwood Creek	OK410100-01-0050H		N	I		F	F		X			X	

Site Name	WBID	Cool Water Aquatic Community	Warm Water Aquatic Community	Primary Body Contact (Recreation)	Secondary Body Contact Recreation	Aesthetics	Agriculture	Emergency Water Supply	Fish Consumption	Sensitive Water Supply	High Quality Water	Public/Private Water Supply	Outstanding Resource
One Creek	OK410300-03-0060F		N	I		I	F		X				
Rock Creek (McCurtain)	OK410200-03-0010G	N		I		I	F		X			X	
Rock Creek (Pushmataha)	OK410300-02-0190G	N		I		I	F		X				
Sand Creek	OK410700-00-0260G		F	I		F	F		X				
Sandy Creek	OK410600-02-0020G		F	I		I	F		X			X	
Sulphur Creek	OK410600-01-0030G		N	I		F	F		X				
Tenmile Creek	OK410300-03-0270C		N	N		I	F		X			I	
Terrapin Creek	OK410210-02-0150G	N		I		F	F		X		X	X	
Waterhole Creek	OK410100-01-0340D		N	I		F	F		X			X	
West Fork Glover River	OK410210-08-0010M	N		F		F	F		F		X	F	
Whitegrass Creek	OK410400-01-0210G		N	I		F	F		X			X	

4.0 LITERATURE CITED

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APPENDICES

APPENDIX A WATER QUALITY DATA

A.1 Raw chemical and physical water quality data. Turbidity Cause: I = inorganic, O = organic.

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Beech Creek	OK410210-06-0320G	6/7/2010	7.6	93.3	8.35	I	X	122	25.9	29.7	6.1	1.6	2	0.03	0.03	< 0.02	0.26	0.075	0.31	29	71	< 0.005	0.02	< 10	4.812
Beech Creek	OK410210-06-0320G	7/12/2010	7.88	101	5.48	O		16.1	28.1	34.2	6.8	2.4	2.4	0.05	0.03	< 0.02	0.43	0.102	0.48	24	12.4	0.006	0.02	13	3.548
Beech Creek	OK410210-06-0320G	8/16/2010	7.04	98.4	4.58	O		20.1	33.3	41	7.1	1.7	1.4	0.02	< 0.02	< 0.02	0.43	0.057	0.47	31	26.4	< 0.005	0.02	< 10	0.179
Beech Creek	OK410210-06-0320G	9/20/2010	9.15	114	4.92	O		16.6	26.6	29.3	6	1.4	2.4	0.02	< 0.02	< 0.02	0.28	0.057	0.32	< 10	10.4	< 0.005	0.02	< 10	7.676
Beech Creek	OK410210-06-0320G	10/25/2010	9.2	102	5.21	O		17.8	20.4	35.7	5.9	1.9	2.4	< 0.02	< 0.02	< 0.02	0.37	0.055	0.41	< 10	12.7	< 0.005	< 0.01	< 10	0.854
Beech Creek	OK410210-06-0320G	12/7/2010	12.56	100	6.34	O		12.4	5.7	26.8	6.4	1.7	2.7	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	36	16.1	< 0.005	< 0.01	< 10	5.521
Beech Creek	OK410210-06-0320G	1/18/2011	9.37	77.3	6.32	O		4.9	7.2	17.3	6.7	1.7	3.1	0.02	< 0.02	< 0.02	< 0.11	0.058	0.15	18	8.6	< 0.005	< 0.01	< 10	10.999
Beech Creek	OK410210-06-0320G	2/22/2011	10.91	102	5.71	I	X	6.1	12.2	23.8	6.6	1.5	2.9	< 0.02	< 0.02	< 0.02	0.18	0.055	0.22	18	7.3	< 0.005	< 0.01	< 10	26.794
Beech Creek	OK410210-06-0320G	4/4/2011	9.16	97.8	4.52	O		11.4	18.5	28.1	6.4	1.7	2.8	< 0.02	< 0.02	< 0.02	0.14	0.055	0.18	41	8	< 0.005	0.01	< 10	10.448
Beech Creek	OK410210-06-0320G	5/23/2011	9.48	102	15.8	I	X	7.1	18.8	25.9	5.9	1.3	2.4	< 0.02	0.03	< 0.02	0.17	0.065	0.22	42	5.7	< 0.005	0.01	< 10	65.453
Beech Creek	OK410210-06-0320G	6/20/2011	7.69	98.3	3.69	O		13.4	27.8	32.9	7	1.5	1.9	< 0.02	< 0.02	< 0.02	0.17	0.055	0.21	30	7.8	< 0.005	0.01	< 10	2.07
Beech Creek	OK410210-06-0320G	8/1/2011	7.15	91.9	5.32	O		28.7	28.1	57	7.3	2	1.2	< 0.02	< 0.02	< 0.02	0.47	0.055	0.51	34	22.8	< 0.005	0.02	< 10	0
Beech Creek	OK410210-06-0320G	8/29/2011	4.03	48.2	27	I	X	42.7	24.4	104	7.4	2.4	1.8	0.04	0.12	< 0.02	0.65	0.18	0.79	76	29.6	0.005	0.05	11	0
Beech Creek	OK410210-06-0320G	10/10/2011	6.11	68.8	14.5	O		36.9	21.2	85.4	7.2	2.8	3.2	< 0.02	< 0.02	< 0.02	0.46	0.055	0.5	54	23.6	0.005	0.02	< 10	0
Beech Creek	OK410210-06-0320G	11/14/2011	9.58	101	6.75	I	X	8.5	18.1	34.8	6.5	3.6	4	< 0.02	0.36	< 0.02	0.17	0.395	0.55	31	8.3	< 0.005	0.03	< 10	6.358
Beech Creek	OK410210-06-0320G	12/19/2011	10.36	91.9	3.75	I	X	5.9	10.1	17.6	6.5	2.1	2.9	0.05	0.17	< 0.02	0.18	0.235	0.37	27	6.2	0.043	0.06	< 10	47.782
Beech Creek	OK410210-06-0320G	1/23/2012	9.2	79.9	2.73	O		8.3	9.2	24.5	6.5	1.8	2.8		0.02	< 0.02	< 0.11	0.04	0.15	23	6.2	< 0.005	< 0.01	< 10	33.04
Beech Creek	OK410210-06-0320G	3/5/2012	11.19	108	3.37	O		9.8	13.6	24.4	6.6	1.7	2.8		< 0.02	< 0.02	0.17	0.04	0.21	40	8.6	< 0.005	0.01	< 10	23.849
Beech Creek	OK410210-06-0320G	4/2/2012	8.87	100	4.73			8.4	22.1	23.2	6.9	1.5	2.3		< 0.02	< 0.02	< 0.11	0.04	0.15	42	7.3	< 0.005	0.01	< 10	26.841
Beech Creek	OK410210-06-0320G	5/7/2012	8.25	101	4.99	O	X	11.7	26.6	27.8	6.8	1.6	2.2		< 0.02	< 0.02	< 0.11	0.04	0.15	37	7.8	< 0.005	0.01	< 10	4.139
Big Cedar Creek	OK410310-02-0100D	6/7/2010	7.38	83.4	7.2	O		148	22.1	41.7	5.6	2.9	3.1	0.02	< 0.02	< 0.02	0.2	0.061	0.24	26	101	< 0.005	0.03	10	3.044
Big Cedar Creek	OK410310-02-0100D	7/12/2010	81.4	47.6	0			21.1	25.5	59.1	7	4.4	3.8	0.03	0.05	< 0.02	0.17	0.1	0.24	42	16	< 0.005	0.02	< 10	0.256
Big Cedar Creek	OK410310-02-0100D	8/16/2010	4.25	54.3	52.4	I	X	24.3	27.9	62.4	6	3.9	< 10	< 0.02	0.25	< 0.02	0.67	0.285	0.94	62	16.9	< 0.005	0.05	< 10	0
Big Cedar Creek	OK410310-02-0100D	9/20/2010	7.43	83.6	2.98	O		20.3	21.3	44.9	6.1	3.4	3	< 0.02	< 0.02	< 0.02	0.26	0.055	0.3	71	47.6	< 0.005	0.03	< 10	4.956
Big Cedar Creek	OK410310-02-0100D	10/25/2010	7.45	79.1	26.8	I	X	21.1	18.2	51.7	6.7	3.5	6.5	< 0.02	< 0.02	< 0.02	0.36	0.055	0.4	47	14.2	< 0.005	0.02	< 10	6.479
Big Cedar Creek	OK410310-02-0100D	12/7/2010	11.52	93.1	15.3	O		5.9	6.3	47.2	6	5.4	4.4	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	48	16.4	< 0.005	0.02	< 10	0.769
Big Cedar Creek	OK410310-02-0100D	1/18/2011	9.14	74.9	16.1	I	X	20.3	6.3	29.1	6.3	4.8	4.8	0.02	< 0.02	< 0.02	< 0.11	0.059	0.15	52	12.7	0.006	0.01	< 10	5.212
Big Cedar Creek	OK410310-02-0100D	2/22/2011	10.44	90.3	16.1	I	X	10.7	8.9	47	6.5	5.8	4.5	< 0.02	< 0.02	< 0.02	0.16	0.055	0.2	37	11.7	< 0.005	0.01	< 10	7.394
Big Cedar Creek	OK410310-02-0100D	4/4/2011	8.33	80.2	15.3	O		14.3	13.5	51.8	6.5	5.1	4.3	< 0.02	< 0.02	< 0.02	0.14	0.055	0.18	66	12.6	< 0.005	0.01	< 10	9.891
Big Cedar Creek	OK410310-02-0100D	5/23/2011	8.77	92.3	25.5	I	X	10.8	17.8	39.1	6.2	2.7	3.4	< 0.02	< 0.02	< 0.02	0.17	0.055	0.21	59	6.5	0.009	0.02	< 10	12.075
Big Cedar Creek	OK410310-02-0100D	6/20/2011	7.1	82.9	10.7	O		19.4	24.1	51.9	6.5	3.6	2.6	< 0.02	0.03	< 0.02	0.15	0.065	0.2	51	12	< 0.005	0.02	< 10	0.086
Big Cedar Creek	OK410310-02-0100D	8/1/2011	5.88	75	4.17	O		29.5	28.4	102	7.3	7.8	4.2	0.03	< 0.02	< 0.02	0.96	0.067	1	41	29.7	< 0.005	0.03	< 10	0
Big Cedar Creek	OK410310-02-0100D	8/29/2011	5.52	68.2	4.97	O		27.1	25.5	122	7.4	11	5.1	0.05	0.07	< 0.02	0.87	0.14	0.96	93	23.8	< 0.005	0.03	< 10	0
Big Cedar Creek	OK410310-02-0100D	10/10/2011	5.57	57.8	2.23	O		49.7	20.3	193	5.6	15.5	4.8	< 0.02	< 0.02	< 0.02	1.45	0.055	1.49	110	52.4	< 0.005	0.04	< 10	0
Big Cedar Creek	OK410310-02-0100D	11/14/2011	8.8	89.7	22.8	I	X	8.4	16.4	46.9	6.2	4.8	5.5	< 0.02	0.04	< 0.02	0.21	0.075	0.27	57	13.3	< 0.005	0.03	< 10	49.775
Big Cedar Creek	OK410310-02-0100D	12/19/2011	10.35	90	7.93	I	X	10.3	9.2	22.5	9.2	3.1	4	< 0.02	0.03	< 0.02	0.11	0.065	0.16	49	11.1	< 0.005	0.03	< 10	49.491

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Big Cedar Creek	OK410310-02-0100D	1/23/2012	10.38	88.3	6.36	O		15.8	8.3	33.3	6.7	3.3	4.1		< 0.02	< 0.02	0.22	0.04	0.26	33	9.6	< 0.005	0.01	< 10	16.853
Big Cedar Creek	OK410310-02-0100D	3/5/2012	9.25	83	2.15	O	X	19.7	10.4	36.8	6.2	3.9	4.1		< 0.02	< 0.02	0.26	0.04	0.3	53	10.4	< 0.005	0.01	< 10	11.591
Big Cedar Creek	OK410310-02-0100D	4/2/2012	8.33	88	10.8	I	X	12.5	17.9	33.1	6.4	2.8	3.3		< 0.02	< 0.02	< 0.11	0.04	0.15	45	6.4	< 0.005	0.01	< 10	7.714
Big Cedar Creek	OK410310-02-0100D	5/7/2012	7.32	80.6	1.17	O	X	11.4	20.9	42	6.3	3.2	3.3		< 0.02	< 0.02	< 0.11	0.04	0.15	61	10.5	< 0.005	0.01	< 10	0.614
Big Eagle Creek	OK410210-06-0160L	6/7/2010	7.62	93.8	4.2	O		87	25.7	25.9	5.9	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	61	< 0.005	< 0.01	< 10	8.044
Big Eagle Creek	OK410210-06-0160L	7/12/2010	7.25	92.7	4.11	O		14.5	28	30.5	6.1	23.3	2.5	0.03	0.12	< 0.02	0.28	0.174	0.42	36	16.4	< 0.005	0.01	< 10	3.993
Big Eagle Creek	OK410210-06-0160L	8/16/2010	7.52	98.3	3.61	O		14.2	29.6	32.1	6.1	1.8	2	< 0.02	0.05	< 0.02	0.28	0.085	0.35	35	47	< 0.005	0.02	< 10	3.315
Big Eagle Creek	OK410210-06-0160L	9/20/2010	7.65	90.1	3.76	O		16.3	23.7	26	5.8	1.8	2.1	0.02	0.12	< 0.02	0.24	0.155	0.38	42	11.8	< 0.005	0.01	< 10	25.405
Big Eagle Creek	OK410210-06-0160L	10/25/2010	8.46	91.3	8.67	I	X	14.2	19	29.4	6.9	2.1	3	< 0.02	0.12	< 0.02	< 0.11	0.155	0.25	18	10.1	< 0.005	0.01	< 10	21.541
Big Eagle Creek	OK410210-06-0160L	12/7/2010	12.33	99.9	5.42	O		14.9	6.4	25.1	6.2	2.4	2.5	< 0.02	0.09	< 0.02	< 0.11	0.125	0.22	32	8.1	< 0.005	< 0.01	< 10	25.609
Big Eagle Creek	OK410210-06-0160L	1/18/2011	9.09	74.4	4.1	O		4.4	7.5	17.3	6	2.2	2.8	< 0.02	0.05	< 0.02	< 0.11	0.085	0.18	50	7.2	< 0.005	< 0.01	< 10	67.484
Big Eagle Creek	OK410210-06-0160L	2/22/2011	11.23	95.6	3.63	O		4.1	8.3	23.9	6.2	2.7	2.9	< 0.02	0.02	< 0.02	0.14	0.055	0.18	48	13.7	< 0.005	< 0.01	< 10	74.698
Big Eagle Creek	OK410210-06-0160L	4/4/2011	9.33	95.4	3.99	O		11.9	16.4	25.2	6.3	2.2	2.6	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	31	8.1	< 0.005	0.01	< 10	28.359
Big Eagle Creek	OK410210-06-0160L	5/23/2011	9.15	95.2	7.35	I	X	6.2	17.4	25.2	5.8	1.8	2.5	< 0.02	0.02	< 0.02	0.16	0.055	0.2	37	4.9	< 0.005	0.01	< 10	78.331
Big Eagle Creek	OK410210-06-0160L	6/20/2011	6.43	79.3	3.04	O		10.3	26.3	30.2	6.6	1.9	2.1	< 0.02	0.06	< 0.02	0.13	0.095	0.21	44	6.7	< 0.005	< 0.01	< 10	7.078
Big Eagle Creek	OK410210-06-0160L	8/1/2011	4	49.6	1.91	O		44.1	26.4	37.6	6.3	2.1	1.9	< 0.02	0.04	< 0.02	0.24	0.075	0.3	23	8.5	0.008	0.03	< 10	0
Big Eagle Creek	OK410210-06-0160L	8/29/2011	3.57	43	2.19	O		25	24.8	48.8	6.3	3.4	2.6	0.02	0.21	< 0.02	0.48	0.248	0.71	64	23.4	< 0.005	< 0.01	< 10	0
Big Eagle Creek	OK410210-06-0160L	10/10/2011	3.64	40.7	1.44	O		18.1	20.9	54.1	6.5	3.6	3.6	0.02	0.03	< 0.02	0.34	0.065	0.39	23	17.5	< 0.005	0.02	< 10	0
Big Eagle Creek	OK410210-06-0160L	11/14/2011	9.2	96.3	4.26	I	X	8.1	17.5	37.8	6.4	3.4	3	< 0.02	1.16	< 0.02	0.21	1.195	1.39	41	8.6	< 0.005	< 0.01	< 10	15.22
Big Eagle Creek	OK410210-06-0160L	12/19/2011	9.82	85.7	2.73	I	X	7.9	9.4	17.7	5.9	2	2.9	< 0.02	0.29	< 0.02	< 0.11	0.325	0.42	36	9.5	< 0.005	0.05	< 10	87.887
Big Eagle Creek	OK410210-06-0160L	1/23/2012	11.49	97.1	1.61	O		15.5	8	23.8	6.5	2.2	2.7		0.12	< 0.02	< 0.11	0.14	0.25	21	5.1	< 0.005	< 0.01	< 10	20.292
Big Eagle Creek	OK410210-06-0160L	3/15/2012	10.2	91.5	1.57	O		6	10.5	23.7	6	2.2	2.6		0.06	< 0.02	0.14	0.08	0.22	43	6.2	< 0.005	< 0.01	< 10	10.13
Big Eagle Creek	OK410210-06-0160L	4/2/2012	9.32	98.6	2.33			6.9	18.9	21.7	6.7	1.9	2.5		0.02	< 0.02	< 0.11	0.04	0.15	20	6.3	< 0.005	< 0.01	< 10	20.698
Big Eagle Creek	OK410210-06-0160L	5/7/2012	6.76	78.8	2.48	O	X	13.2	26	25.3	6.2	1.8	2.4		0.04	< 0.02	< 0.11	0.06	0.17	35	6.9	< 0.005	0.01	< 10	6.587
Billy Creek	OK410310-02-0070C	6/7/2010	4.91	45.9	7.2	O		106	25.9	65.9	5.7	2.9	4.2	0.03	< 0.02	< 0.02	0.35	0.074	0.39	36	111	0.005	0.04	< 10	5.506
Billy Creek	OK410310-02-0070C	7/12/2010	6.62	45.2	4.76	O		34	27.1	65.3	7.1	3.9	3.8	0.04	0.04	< 0.02	0.17	0.102	0.23	37	19.4	0.007	0.05	< 10	0
Billy Creek	OK410310-02-0070C	8/16/2010	3.34	49.9	14.3	O		53	28	81.4	6.5	3.6	2.3	0.05	< 0.02	< 0.02	0.74	0.09	0.78	49	44	0.008	0.05	< 10	0
Billy Creek	OK410310-02-0070C	9/20/2010	4.62	55	7.91	O		62	23.8	63.1	5.9	3.4	5.1	0.02	< 0.02	0.42	0.059	0.46	59	76	< 0.005	0.03	< 10	0	
Billy Creek	OK410310-02-0070C	10/25/2010	4.81	51.2	7.98	O		21.7	18.3	69.1	7.2	5	58.3	< 0.02	< 0.02	< 0.02	0.6	0.055	0.64	24	24.6	< 0.005	0.01	< 10	0
Billy Creek	OK410310-02-0070C	12/7/2010	12.36	92.4	4.65	O		16.6	3.2	55.7	6.2	4.6	6.8	0.02	< 0.02	< 0.02	0.21	0.059	0.25	33	17.9	< 0.005	0.01	< 10	0
Billy Creek	OK410310-02-0070C	1/18/2011	9.01	73.9	8.04	I	X	17.2	6.5	61.5	6.1	6.1	7.2	< 0.02	0.18	< 0.02	< 0.11	0.215	0.31	46	13.8	0.006	0.02	< 10	0
Billy Creek	OK410310-02-0070C	2/22/2011	8.6	74.6	10.6	O		12.1	9.1	53.9	6.5	4.9	6.4	< 0.02	0.03	< 0.02	0.2	0.065	0.25	41	11	< 0.005	0.02	< 10	0
Billy Creek	OK410310-02-0070C	4/4/2011	5.7	65	6.11	O		12.8	18	59.3	6.2	4.8	5.4	< 0.02	< 0.02	< 0.02	0.34	0.055	0.38	61	14.8	< 0.005	0.02	< 10	0
Billy Creek	OK410310-02-0070C	5/23/2011	7.69	83.3	21.9	I	X	13.6	19.5	108	6.6	3.8	5	< 0.02	0.03	< 0.02	0.25	0.065	0.3	62	6	0.011	0.04	< 10	0
Billy Creek	OK410310-02-0070C	6/20/2011	3.15	39.5	6.19	O		22.1	26.8	66.2	6.3	3	3.5	< 0.02	< 0.02	< 0.02	0.28	0.055	0.32	55	18	0.010	0.02	< 10	0
Billy Creek	OK410310-02-0070C	8/1/2011	1.77	22.4	5.2	O		38.1	28.2	107	6.5	4.5	1.1	< 0.02	< 0.02	< 0.02	0.74	0.055	0.78	45	33.1	0.009	0.04	< 10	0
Billy Creek	OK410310-02-0070C	8/29/2011	1.99	24.4	7.06	O		81	28.4	122	7	5.6	0.8	0.04	0.03	< 0.02	1.07	0.085	1.12	95	62	0.006	0.04	< 10	0
Billy Creek	OK410310-02-0070C	10/10/2011	4.05	43.6	2.85	O		47.1	19	140	6.7	8.2	1.6	0.02	< 0.02	< 0.02	0.								

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Billy Creek	OK410310-02-0070C	3/5/2012	7.18	63.1	5.21	O		33	9.6	48.3	5.7	4.2	6		0.19	< 0.02	0.41	0.21	0.62	56	69	0.006	0.01	< 10	10.66
Billy Creek	OK410310-02-0070C	4/2/2012	7.6	83.3	7.71	O		20	19.8	43.2	6.8	3	4.6		0.14	< 0.02	0.22	0.16	0.38	51	46	< 0.005	0.01	< 10	3.861
Billy Creek	OK410310-02-0070C	5/7/2012	5.09	59.8	5.38	O	X	54	24.3	58.4	6.4	4.4	4.3		< 0.02	< 0.02	0.41	0.04	0.45	51	69	< 0.005	0.04	< 10	0
Bird Creek	OK410300-01-0100C	6/7/2010	6.65	92.7	18	I		171	33.1	450	7.6	15.5	34.3	0.03	< 0.02	< 0.02	< 0.11	0.067	0.15	286	199	0.009	0.07	10	0
Bird Creek	OK410300-01-0100C	7/12/2010	7.9	109	11.5	I	X	35.9	31.1	119	7.4	7.8	5.6	0.1	0.05	< 0.02	0.9	0.168	0.97	71	35.5	0.008	0.04	< 10	0
Bird Creek	OK410300-01-0100C	8/16/2010	9.4	136	46.4	I	X	90	34.3	259	7.4	13.7	14.7	0.04	< 0.02	< 0.02	1.05	0.084	1.09	149	111	0.018	0.08	26	0
Bird Creek	OK410300-01-0100C	9/20/2010	5.35	73	12.8	O		92	30.5	268	7.6	10.6	12.7	0.02	< 0.02	< 0.02	1.03	0.055	1.07	125	120	< 0.005	0.05	< 10	0
Bird Creek	OK410300-01-0100C	10/25/2010	7.1	83.6	19.9	I		111	22.7	354	7.7	11.1	13.2	< 0.02	0.03	< 0.02	0.95	0.065	1	198	163	< 0.005	0.05	< 10	0
Bird Creek	OK410300-01-0100C	12/7/2010	11.18	91.3	1.66	O		147	6.6	467	7.8	10.2	80.4	0.26	< 0.02	< 0.02	0.38	0.3	0.42	308	269	0.008	0.01	< 10	< 0.1
Bird Creek	OK410300-01-0100C	1/18/2011	12.68	107	2.03	O		163	7.9	190	8.4	5.1	58.2	< 0.02	0.15	< 0.02	0.25	0.185	0.42	276	231	< 0.005	< 0.01	< 10	1.486
Bird Creek	OK410300-01-0100C	2/22/2011	14.7	159	2.91	O		137	19.2	442	8	10.4	72.7	< 0.02	< 0.02	< 0.02	0.33	0.055	0.37	267	238	< 0.005	0.01	< 10	0.2
Bird Creek	OK410300-01-0100C	4/4/2011	11.79	134	6.93	O		172	21.7	496	8.5	13.7	72.1	< 0.02	< 0.02	< 0.02	0.65	0.055	0.69	323	278	< 0.005	0.02	< 10	0
Bird Creek	OK410300-01-0100C	5/16/2011	5.27	72.1	5.69	O		244	26.4	563	7.5	10.1	47.9	< 0.02	0.12	< 0.02	0.42	0.155	0.56	336	326	< 0.005	0.02	< 10	0.305
Bird Creek	OK410300-01-0100C	6/21/2011	4.15	52.4	17.1	O		132	26.9	411	7.7	16.4	46.8	0.05	0.02	< 0.02	0.56	0.094	0.6	243	168	0.006	0.03	< 10	0
Bird Creek	OK410300-01-0100C	7/20/2011	5.88	74.1	7.21	O		29	27.8	346	8.2	27.3	58.5	< 0.02	0.02	< 0.02	0.8	0.055	0.84	228	27.3	0.006	0.03	< 10	0
Bird Creek	OK410300-01-0100C	8/29/2011	10.13	134	28.3	I		98	29.5	288	7.7	17.2	15.5	0.02	< 0.02	< 0.02	0.71	0.055	0.75	204	115	0.008	0.04	< 10	0
Bird Creek	OK410300-01-0100C	11/15/2011	4.48	49.7	5.02	O		102	20.3	606	7.2	17	147.8	0.06	3.46	0.25	1.13	3.772	4.84	376	238	< 0.005	0.03	< 10	0
Bird Creek	OK410300-01-0100C	12/20/2011	10.09	91	18.5	I	X	125	10.8	333	8.1	4.6	36.1	< 0.02	1.06	< 0.02	0.48	1.095	1.56	249	160	0.015	0.06	< 10	488.57
Bird Creek	OK410300-01-0100C	1/24/2012	10.57	85.2	1.93	O		153	6.2	379	8.2	8.2	41.4		0.2	< 0.02	0.33	0.22	0.55	241	178	< 0.005	0.01	< 10	< 0.1
Bird Creek	OK410300-01-0100C	3/6/2012	10.78	98.8	0.73	O		167	11.4	441	8	9.4	48		< 0.02	< 0.02	0.38	0.04	0.42	280	224	< 0.005	0.01	< 10	2.148
Bird Creek	OK410300-01-0100C	4/3/2012	3.51	38.8	10.4			107	20.2	212	7.4	3.7	15.5		0.02	< 0.02	0.64	0.04	0.68	151	128	0.022	0.06	< 10	0
Bird Creek	OK410300-01-0100C	5/8/2012	4.98	58.5	10			208	23.2	618	7.9	21	103		< 0.02	< 0.02	0.38	0.04	0.42	407	7.95	< 0.005	0.03	< 10	0
Black Fork of Little River	OK410210-03-0020C	6/8/2010	4.74	60	3.8			14.1	27.4	50.2	5.3	4.6	3.7	0.03	< 0.02	< 0.02	0.23	0.074	0.27	30	13.4	0.005	0.01	< 10	4.279
Black Fork of Little River	OK410210-03-0020C	7/13/2010	4.42	56.9	3.03	O		20.3	28.5	58.7	6.1	5.2	2.4	0.05	< 0.02	< 0.02	0.63	0.087	0.67	36	15.7	0.006	0.03	< 10	0.695
Black Fork of Little River	OK410210-03-0020C	8/17/2010	3.2	43	3.01	O		22.3	30.6	68.9	6.4	5	1.4	0.02	< 0.02	< 0.02	0.68	0.058	0.72	35	20	< 0.005	0.03	< 10	0
Black Fork of Little River	OK410210-03-0020C	9/21/2010	5.77	72.1	2.97	O		22.5	26.7	72.1	6.3	4.1	3.6	0.03	0.02	< 0.02	0.71	0.065	0.75	22	21	< 0.005	0.02	< 10	0
Black Fork of Little River	OK410210-03-0020C	10/26/2010	5.57	62.2	1.61	O		25	20.7	82.3	6.7	5.1	3.4	< 0.02	< 0.02	< 0.02	0.69	0.055	0.73	34	25	< 0.005	0.01	< 10	0
Black Fork of Little River	OK410210-03-0020C	12/8/2010	10.08	80	2.68	O		25.2	5.6	84.6	6.7	7.2	2.9	< 0.02	< 0.02	< 0.02	0.46	0.055	0.5	36	38.3	0.009	0.02	< 10	1.45
Black Fork of Little River	OK410210-03-0020C	1/19/2011	12	92.2	8.71	O		9	4.3	64.1	6.6	7.7	6.3	< 0.02	0.15	< 0.02	0.18	0.185	0.35	53	23.6	< 0.005	0.02	< 10	5.711
Black Fork of Little River	OK410210-03-0020C	2/23/2011	10.44	98.3	6.21	O		10.6	12.6	59.7	6.9	8	6.3	< 0.02	< 0.02	< 0.02	0.21	0.055	0.25	41	15.3	< 0.005	0.01	< 10	15.571
Black Fork of Little River	OK410210-03-0020C	4/5/2011	8.26	83.9	2.56	O		11.5	16.1	53.2	6.4	8.2	5.4	< 0.02	< 0.02	< 0.02	0.3	0.055	0.34	49	17.8	< 0.005	0.02	< 10	5.444
Black Fork of Little River	OK410210-03-0020C	5/17/2011	10.25	111	5.68	O		11.7	19.3	43.7	6.1	4.2	4.6	< 0.02	< 0.02	< 0.02	0.21	0.055	0.25	44	6.2	< 0.005	0.02	< 10	20.542
Black Fork of Little River	OK410210-03-0020C	6/20/2011	3.21	38.9	2.47	O		18.8	28	57.1	6.3	4.3	3.7	0.03	< 0.02	< 0.02	0.44	0.067	0.48	47	13	0.008	0.04	< 10	< 0.1
Black Fork of Little River	OK410210-03-0020C	7/20/2011	3.4	67.1	7.42	I	X	21.8	28.5	85.5	6.5	4.6	2.2	0.07	0.09	< 0.02	1.06	0.176	1.17	57	10	0.009	0.04	< 10	0
Black Fork of Little River	OK410210-03-0020C	8/30/2011	6.6	85.5	2.07	O		54.4	29.2	149	6.8	< 0.05	< 0.2	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	50.3	< 0.005	< 0.01	< 10	0	
Black Fork of Little River	OK410210-03-0020C	10/17/2011	3.5	37.4	5.31	O		42	18.6	80.4	6.5	5.6	1.6	< 0.02	< 0.02	< 0.02	0.74	0.055	0.78	52	35	< 0.005	0.04	< 10	0
Black Fork of Little River	OK410210-03-0020C	11/14/2011	7.76	77.4	9.92	O		45	15.1	56.1	6.2	4.9	7.1	< 0.02	0.94	< 0.02	0.66	0.975	1.62	57	32	< 0.005	0.45	< 10	0.553
Black Fork of Little River	OK410210-03-0020C	12/19/2011	11.33	96.9	4.73	O		15.4	8.6	39.2	6.4	3.9	5	< 0.02	0.47	< 0.02	0.13	0.505	0.62	15	4.5	< 0.005</			

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Black Fork of Little River	OK410210-03-0020C	5/7/2012	5.12	61.4	3.29	O		25	24.5	53.4	6.3	4.2	4.1	< 0.02	< 0.02	0.27	0.04	0.31	41	143	< 0.005	0.02	< 10	1.086	
Bokchito Creek	OK410600-01-0090G	6/14/2010	7.75	99.9	6.43	O		185	28.3	493	7.3	13	47.6	0.02	0.04	< 0.02	0.44	0.078	0.5	303	176	0.005	0.01	< 10	0.206
Bokchito Creek	OK410600-01-0090G	7/19/2010	6.38	83.4	2.24	O		176	29.6	415	7.2	10	37	0.02	0.03	< 0.02	0.44	0.065	0.49	246	206	0.015	0.04	< 10	0.136
Bokchito Creek	OK410600-01-0090G	8/23/2010	6.36	85.3	3.81	O		191	30.8	430	7.5	13.2	40.8	0.02	< 0.02	< 0.02	0.35	0.061	0.39	258	184	< 0.005	0.24	< 10	0.082
Bokchito Creek	OK410600-01-0090G	9/27/2010	6.34	69.8	1.06	O		193	20.2	273	7.4	5.3	26.3	0.03	0.09	< 0.02	0.49	0.137	0.6	149	184	0.017	0.05	< 10	0.329
Bokchito Creek	OK410600-01-0090G	11/1/2010	6.83	68.9	0.99	O		170	15.9	408	7.1	14.6	33	< 0.02	< 0.02	< 0.02	0.27	0.055	0.31	247	194	0.018	0.02	< 10	0.68
Bokchito Creek	OK410600-01-0090G	12/13/2010	10.63	83.3	11.7	O		192	5.4	293	7.4	16	41.6	< 0.02	< 0.02	< 0.02	0.23	0.055	0.27	289	231	< 0.005	0.01	< 10	0.507
Bokchito Creek	OK410600-01-0090G	1/14/2011	10.83	84.1	2.1	O		186	5.2	484	7.5	14.8	41.5	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	306	232	< 0.005	0.01	< 10	1.079
Bokchito Creek	OK410600-01-0090G	3/7/2011	12.66	119	1.79	O		224	12.4	407	8.1	15.7	49.1	< 0.02	< 0.02	< 0.02	0.25	0.055	0.29	275	259	< 0.005	0.01	< 10	0.326
Bokchito Creek	OK410600-01-0090G	4/11/2011	5.95	68.7	36.1	I	X	163	22.3	427	7.6	14.4	35.2	< 0.02	0.08	< 0.02	0.82	0.115	0.92	283	184	0.007	0.06	< 10	1.622
Bokchito Creek	OK410600-01-0090G	5/16/2011	8.71	94.1	2.67	O		210	19	419	7.6	12.3	< 0.02	< 0.02	< 0.02	0.26	0.055	0.3	267	225	0.005	0.01	< 36	0.707	
Bokchito Creek	OK410600-01-0090G	6/28/2011	4.36	53.8	2.01	O		164	26	440	7.5	16.4	49.2	< 0.02	0.05	< 0.02	< 0.11	0.085	0.18	263	245	< 0.005	0.02	< 10	0
Bokchito Creek	OK410600-01-0090G	8/2/2011	5.41	67	9.09	O		253	27.1	533	7.2	20.8	34.8	< 0.02	< 0.02	< 0.02	0.69	0.055	0.73	289	255	< 0.005	0.02	< 10	0
Bokchito Creek	OK410600-01-0090G	9/7/2011	4.65	48.4	1.69	O		129	17.3	486	7.8	21.4	96.1	0.03	< 0.02	< 0.02	0.81	0.071	0.85	321	44	< 0.005	0.02	< 10	0
Bokchito Creek	OK410600-01-0090G	10/19/2011	10.1	92.2	2.2	O		20	12.2	403	7.7	15.6	91.4	< 0.02	< 0.02	< 0.02	0.62	0.055	0.66	298	258	0.021	0.03	< 10	0
Bokchito Creek	OK410600-01-0090G	11/29/2011	6.63	52.8	4.35	I	X	132	5.6	425	7.8	15.8	80.4	< 0.02	1.55	< 0.02	0.5	1.585	2.07	285	350	0.017	0.04	17	
Bokchito Creek	OK410600-01-0090G	1/4/2012	11.57	88.2	1.5	I		144	4	462	8	16.4	65.8	< 0.02	0.13	< 0.02	0.24	0.165	0.39	328	625	0.007	0.01	< 10	0.265
Bokchito Creek	OK410600-01-0090G	1/31/2012	8.9	80.6	6.63	I	X	131	10.9	401	7.8	10.4	60.8		1.76	0.04	0.65	1.8	2.45	260	235	0.016	0.04	< 10	3.621
Bokchito Creek	OK410600-01-0090G	3/12/2012			1.94	I	X	121	14.3	511	7.8	16.3	86.2		0.08	< 0.02	0.3	0.1	0.4	364	320	< 0.005	0.01	38	3.16
Bokchito Creek	OK410600-01-0090G	4/9/2012	8.49	90.7	14	I	X	137	18.9	371	7.7	11.1	41.3		0.25	< 0.02	0.57	0.27	0.84	244	366	0.008	0.04	< 10	
Bokchito Creek	OK410600-01-0090G	5/15/2012			6.79	I		181	19.9	449	7.6	12.4	50.4		0.08	< 0.02	0.38	0.1	0.48	281	241	0.007	0.03	< 10	0.765
Buck Creek	OK410310-03-0420C	6/14/2010	5.76	73.4	19.5	O		42	27.6	16.5	6.6	10.2	5.1	0.04	< 0.02	< 0.02	0.45	0.082	0.49	60	37	0.010	0.02	< 10	3.382
Buck Creek	OK410310-03-0420C	7/19/2010	5.13	67	19.8	I	X	84	29.4	76.3	6.9	5.4	4.2	0.02	< 0.02	< 0.02	0.85	0.063	0.89	68	38	0.011	0.04	< 10	4.043
Buck Creek	OK410310-03-0420C	8/23/2010	4.25	55.1	4.42	O		77	28.7	139	6.8	15.3	4.1	0.02	0.02	< 0.02	0.56	0.063	0.6	77	84	< 0.005	0.01	< 10	
Buck Creek	OK410310-03-0420C	9/27/2010	6.35	69.7	17	I	X	27.6	19.9	86	7	6.7	7.6	0.05	0.2	< 0.02	0.78	0.271	1	71	22.7	< 0.005	0.03	< 10	6.129
Buck Creek	OK410310-03-0420C	11/1/2010	8.47	81.8	5.07	O		34.9	13.8	109	6.8	10.7	10.8	< 0.02	1.06	< 0.02	0.54	1.095	1.62	60	31.7	0.008	0.01	< 10	4.949
Buck Creek	OK410310-03-0420C	12/13/2010	6.58	49.7	4.35	O		39	3.6	127	6.2	8.1	3.4	< 0.02	< 0.02	< 0.02	0.62	0.055	0.66	100	94	0.025	0.04	< 10	0.507
Buck Creek	OK410310-03-0420C	1/24/2011	12.31	91.6	13	O		28.6	2.8	97	8.3	9.5	9	< 0.02	< 0.02	< 0.02	0.29	0.055	0.33	91	18.4	< 0.005	0.02	< 10	9.295
Buck Creek	OK410310-03-0420C	3/7/2011	9.38	82.6	7.92	I	X	21.7	9.7	120	7	13.2	11.3	< 0.02	< 0.02	< 0.02	0.3	0.055	0.34	61	26.2	< 0.005	0.01	< 10	13.555
Buck Creek	OK410310-03-0420C	4/11/2011	6.19	67.6	27.5	I	X	14.3	19.6	177	7.1	18.9	10.7	0.03	0.05	< 0.02	0.57	0.096	0.64	106	36.7	0.009	0.04	< 10	15.903
Buck Creek	OK410310-03-0420C	5/16/2011	7.84	81.8	23.7	I	X	25.7	17.3	86.8	7.4	7.4	8.4	< 0.02	< 0.02	< 0.02	0.54	0.055	0.58	114	19.7	0.006	0.04	< 10	81.951
Buck Creek	OK410310-03-0420C	6/27/2011	4.9	60.1	5.2	I		48.9	29.4	159	6.9	17.9	4.7	< 0.02	< 0.02	< 0.02	0.63	0.055	0.67	65	45	0.008	0.03	< 10	0
Buck Creek	OK410310-03-0420C	8/1/2011	3.9	51.8	5.79	I		91	31.2	521	7.2	54.5	2.2	< 0.02	0.06	< 0.02	0.82	0.095	0.9	168	110	0.006	0.05	< 10	0
Buck Creek	OK410310-03-0420C	9/6/2011	5.55	65.6	9.21	I		37	23.8	143	7	15.7	4.3	< 0.02	< 0.02	< 0.02	1.14	0.055	1.18	97	41	< 0.005	0.07	< 10	
Buck Creek	OK410310-03-0420C	10/18/2011	7.43	81.3	5.04	O		41	19.8	84.1	7.3	8.9	4.6	< 0.02	< 0.02	< 0.02	0.66	0.055	0.7	70	33	< 0.005	0.02	< 10	0
Buck Creek	OK410310-03-0420C	11/28/2011	10.04	86.2	24.8	I	X	9.1	8.6	75.8	6.6	7.6	12.2	< 0.02	1.65	< 0.02	0.43	1.685	2.1	78	34	0.008	< 0.01	< 10	
Buck Creek	OK410310-03-0420C	1/3/2012	13.19	105	6.94	I	X	29	5.7	756	7.1	7.5	10.2	< 0.02	0.54	< 0.02	0.33	0.575	0.89	60	385	< 0.005	0.02	< 10	
Buck Creek	OK410310-03-0420C	1/30/2012	11.46	96.1	18.3	I	X	42	8	55.2	6.9	4.3	7.3	0.69	< 0.02	0.38	0.71	1.09	83	37	< 0.005	0.02	< 10		

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Buffalo Creek	OK410210-06-0020G	6/7/2010	6.48	81	8.35	O		146	27.5	42.2	6.1	2.5	2.3	0.02	0.03	< 0.02	0.51	0.073	0.56	41	112	0.018	0.06	< 10	16.865
Buffalo Creek	OK410210-06-0020G	7/12/2010	7.16	95.5	6.38	I	X	18.9	28.6	49	6.4	4	3.4	0.05	0.12	< 0.02	0.61	0.19	0.75	35	15.4	0.060	0.08	< 10	12.053
Buffalo Creek	OK410210-06-0020G	8/16/2010	6.32	88.6	11.7	O		2.3	33.5	49	6.4	3.1	2.2	0.07	< 0.02	< 0.02	0.85	0.113	0.89	29	12.1	0.022	0.05	< 10	0.084
Buffalo Creek	OK410210-06-0020G	9/20/2010	7.64	96.2	9.01	O		13.6	27.5	60.6	5.6	3.3	2.1	0.03	< 0.02	< 0.02	0.74	0.066	0.78	11	12.1	< 0.005	0.04	< 10	14.18
Buffalo Creek	OK410210-06-0020G	10/25/2010	7.67	84.9	9.09	I	X	14.4	20.4	53.4	5.8	3.4	2.4	< 0.02	< 0.02	< 0.02	0.69	0.055	0.73	< 10	12.9	< 0.005	0.02	< 10	13.255
Buffalo Creek	OK410210-06-0020G	12/7/2010	11.91	96.5	1.71	O		26.2	6.4	57.1	6	3.6	3.2	< 0.02	< 0.02	< 0.02	0.16	0.055	0.2	46	15.9	0.008	0.01	< 10	22.142
Buffalo Creek	OK410210-06-0020G	1/18/2011	12.34	98.6	6.39	I	X	27.4	5.8	34.8	6.6	3.7	5	0.02	0.37	< 0.02	0.38	0.409	0.77	77	16.8	0.007	0.02	< 10	26.01
Buffalo Creek	OK410210-06-0020G	2/22/2011	11.45	109	5.2	I	X	12.4	12.9	48.8	6.9	3.6	4.8	< 0.02	0.06	< 0.02	0.19	0.095	0.27	29	19.4	< 0.005	0.04	< 10	11.967
Buffalo Creek	OK410210-06-0020G	4/4/2011	8.61	92.4	3.44	O		20.5	18.7	54.1	6.8	3.4	3.5	0.04	< 0.02	< 0.02	0.39	0.079	0.43	45	14	0.011	0.04	< 10	15.509
Buffalo Creek	OK410210-06-0020G	5/23/2011	8.81	45.3	16.4	I	X	9.1	15.5	41.5	5.9	2.2	3.1	0.02	0.23	< 0.02	0.4	0.274	0.65	45	9	0.020	0.04	< 10	
Buffalo Creek	OK410210-06-0020G	6/30/2011	7.53	101	3.3	O		18.4	30.6	50.4	7.1	3	2.1	< 0.02	0.02	< 0.02	0.45	0.055	0.49	63	13.4	0.010	0.04	< 10	0.932
Buffalo Creek	OK410210-06-0020G	8/1/2011	5.88	81.5	4.25	O		17.1	32.2	51.4	6.9	3.4	1.3	< 0.02	< 0.02	< 0.02	0.63	0.055	0.67	38	15.2	0.007	0.04	< 10	0
Buffalo Creek	OK410210-06-0020G	8/29/2011	4.37	55.1	42.3	I	X	17.6	27.2	472	6.6	3.7	2	0.04	0.07	< 0.02	0.73	0.131	0.82	44	12.9	0.006	0.04	12	0
Buffalo Creek	OK410210-06-0020G	10/10/2011	8.55	99	5.99	O		23.4	22.2	70.7	7.2	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	16.3	< 0.005	< 0.01	< 10	0
Buffalo Creek	OK410210-06-0020G	11/14/2011	9.1	93.5	2.46	I	X	22.8	16.6	68.2	6.9	3.2	3.4	< 0.02	0.03	< 0.02	0.55	0.065	0.6	36	18.3	0.014	0.06	< 10	9.878
Buffalo Creek	OK410210-06-0020G	12/19/2011	11.16	97.7	5.58	I	X	9.1	9.3	46	6.7	3.4	3.9	< 0.02	1.05	< 0.02	0.23	1.085	1.3	40	15.9	0.014	0.05	< 10	
Buffalo Creek	OK410210-06-0020G	1/23/2012	12.68	108	2.47	O		8.4	8.5	45.7	7	3.4	3.9		0.37	< 0.02	< 0.11	0.39	0.5	25	9.3	< 0.005	0.01	< 10	23.127
Buffalo Creek	OK410210-06-0020G	3/5/2012	12.78	123	2.07	O		14.5	13.9	43.9	8.1	3.8	3.6		0.16	< 0.02	0.42	0.18	0.6	39	14.2	< 0.005	0.01	< 10	29.644
Buffalo Creek	OK410210-06-0020G	4/2/2012	11.99	137	4.16			13.1	22.6	38.9	8.2	2.7	2.9		0.08	< 0.02	0.27	0.1	0.37	39	11.7	< 0.005	0.02	< 10	40.332
Buffalo Creek	OK410210-06-0020G	5/7/2012	9.54	114	7.29	I	X	10.1	25.3	46.9	6.7	2.8	2.9		0.06	< 0.02	0.27	0.08	0.35	47	9.9	0.006	0.04	< 10	18.117
Caddo Creek	OK410600-01-0140G	6/14/2010	5.33	65.8	15.8	O		204	29.3	416	7.3	7.4	15.1	0.07	< 0.02	< 0.02	0.65	0.108	0.69	241	250	< 0.005	0.03	< 10	
Caddo Creek	OK410600-01-0140G	7/19/2010	6.14	81.9	2.24	O		157	30.4	0.3	7.3	5	14.1	0.05	< 0.02	< 0.02	0.8	0.086	0.84	176	166	0.005	0.04	< 10	
Caddo Creek	OK410600-01-0140G	8/23/2010	3.44	84.8	5.61	O		202	28.2	373	6.9	7	3.8	0.05	< 0.02	< 0.02	1.01	0.086	1.05	210	193	0.005	0.05	< 10	0
Caddo Creek	OK410600-01-0140G	9/27/2010	4.96	59	11	O		191	23.7	234	7.1	2.5	11.3	0.07	0.02	< 0.02	0.71	0.109	0.75	135	203	< 0.005	0.05	10	4.816
Caddo Creek	OK410600-01-0140G	11/1/2010	4.02	38.7	4.56	O		159	14.8	323	6.8	4.2	6.4	0.04	< 0.02	< 0.02	0.6	0.075	0.64	189	362	0.032	0.04	< 10	0
Caddo Creek	OK410600-01-0140G	12/13/2010	4.81	37.5	7.57	O		166	5.8	224	6.9	4.8	11.2	< 0.02	< 0.02	< 0.02	0.45	0.055	0.49	204	237	< 0.005	0.03	< 10	0
Caddo Creek	OK410600-01-0140G	1/24/2011	9.42	77.4	10.6	O		142	6.8	297	7.7	5.7	14.7	0.02	0.04	0.02	0.74	0.084	0.8	215	249	0.026	0.07	< 10	
Caddo Creek	OK410600-01-0140G	3/7/2011	8.13	76.3	5.71	O		229	12.4	457	7.8	10.7	28.6	< 0.02	< 0.02	< 0.02	0.49	0.055	0.53	281	212	< 0.005	0.03	< 10	> 0.03
Caddo Creek	OK410600-01-0140G	4/11/2011	7.1	831	3.64	O		233	23.2	526	8.1	13.1	26	< 0.02	< 0.02	< 0.02	0.51	0.055	0.55	297	246	0.010	0.02	< 10	0.343
Caddo Creek	OK410600-01-0140G	5/16/2011	7.28	83.1	5.08	O		291	21.9	411	7.6	6.9	20.8	0.02	< 0.02	< 0.02	0.67	0.06	0.71	255	303	< 0.005	0.04	< 10	0.436
Caddo Creek	OK410600-01-0140G	6/28/2011	4.96	62.1	6.13	O		178	26.7	359	7.2	8.2	15.2	0.05	< 0.02	< 0.02	0.91	0.092	0.95	239	135	0.012	0.05	< 10	0
Caddo Creek	OK410600-01-0140G	8/2/2011	11.12	140	6.5	O		187	27.9	376	7.4	10.1	6.2	0.03	< 0.02	< 0.02	0.77	0.067	0.81	205	325	0.009	0.03	< 10	0
Caddo Creek	OK410600-01-0140G	9/7/2011	1.4	14.8	8.14	O		175	18.1	369	7.1	11.4	10	0.04	< 0.02	< 0.02	0.89	0.083	0.93	216	154	< 0.005	0.03	< 10	0
Caddo Creek	OK410600-01-0140G	10/19/2011	5.95	55	6.29	O		211	12	341	7.4	12.4	6.2	0.63	< 0.02	< 0.02	1.6	0.666	1.64	231	169	0.039	0.06	< 10	0
Caddo Creek	OK410600-01-0140G	11/29/2011	3.41	28.4	22.1	I	X	10.4	7.3	240	7.3	4.7	31.9	0.02	1.94	0.06	0.99	2.018	2.99	159	202	0.102	0.18	< 10	
Caddo Creek	OK410600-01-0140G	1/4/2012	6.52	52	6.42	O		144	5.8	344	7.6	8.3	30	0.02	1.2	< 0.02	0.72	1.238	1.94	262	710	0.013	0.06	< 10	< 1
Caddo Creek	OK410600-01-0140G	1/31/2012	9.79	86.8	14	I	X	146	9.9	352	7.7	6	31.1		2.23	< 0.02	0.8	2.25	3.05	233	166	0.028	0.05	< 10	15.251
Caddo Creek	OK410600-01-0140G	3/12/2012			5.19	I	X	192	13.3	462	7.8	13	51.1		0.05	< 0.02	0.5	0.07	0.57	3521	455	0.005	0.03	49	
Caddo Creek	OK4106																								

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (μS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Caney Boggy Creek	OK410400-06-0120G	7/12/2010	5.84	74	58	I	X	51	27.3	170	7.2	8	12.6	0.07	0.1	< 0.02	1.06	0.186	1.18	134	75	0.045	0.11	18	
Caney Boggy Creek	OK410400-06-0120G	8/16/2010	3.6	46.3	3.34	O		123	28.3	420	7.4	29.2	42.9	0.04	< 0.02	< 0.02	0.62	0.075	0.66	258	270	0.012	0.02	< 10	0.048
Caney Boggy Creek	OK410400-06-0120G	10/25/2010			6.14	O		84		283	7.3	13.5	16.5	< 0.02	0.13	< 0.02	< 0.11	0.165	0.26	145	190	0.010	0.04	< 0.1	0.247
Caney Boggy Creek	OK410400-06-0120G	12/13/2010			6.09	O		130		375	7.1	19.1	21.7	< 0.02	< 0.02	< 0.02	0.76	0.055	0.8	254	310	< 0.005	0.03	< 10	1.631
Caney Boggy Creek	OK410400-06-0120G	1/18/2011	11.04	83.6	17	I		99	3.6	378	7.6	18.2	52.6	< 0.02	< 0.02	< 0.02	0.22	0.055	0.26	207	195	0.017	0.03	< 10	1.07
Caney Boggy Creek	OK410400-06-0120G	2/21/2011	7.06	69.4	34.1	I		83	14.5	294	7.4	23	32.3	< 0.02	< 0.02	< 0.02	0.52	0.055	0.56	158	150	0.017	0.06	< 10	3.673
Caney Boggy Creek	OK410400-06-0120G	4/4/2011	7.76	82	5.15	O		114	17.9	2220	7.8	17.4	24.2	< 0.02	< 0.02	< 0.02	0.55	0.055	0.59	171	125	0.007	0.03	< 10	< 0.1
Caney Boggy Creek	OK410400-06-0120G	5/16/2011	7.76	79.6	97.8	I	X	52	17.1	178	7.4	9.9	16.3	0.03	0.12	< 0.02	0.99	0.171	1.13	226	60	0.041	0.11	14	14.749
Caney Boggy Creek	OK410400-06-0120G	6/20/2011	39.3	42.9	13.6	I		81	26.3	215	7.1	13	18.2	0.05	< 0.02	< 0.02	0.83	0.087	0.87	195	75	0.017	0.04	< 10	0
Caney Boggy Creek	OK410400-06-0120G	7/26/2011	0.79	95	8.4	O		188	26.8	333	7.7	14.3	16	0.06	< 0.02	< 0.02	1.06	0.099	1.1	217	440	0.008	0.03	< 10	0
Caney Boggy Creek	OK410400-06-0120G	8/29/2011	0.95	11.9	9.44	O		192	26.4	368	7.5	17.6	16.9	0.04	< 0.02	< 0.02	1.27	0.082	1.31	244	160	0.007	0.05	< 10	0
Caney Boggy Creek	OK410400-06-0120G	10/12/2011	4.64	50.4	9.59	I		103	19.5	362	7	20.7	22.6	0.03	< 0.02	< 0.02	0.95	0.07	0.99	179	113	< 0.005	0.02	< 10	0
Caney Boggy Creek	OK410400-06-0120G	11/16/2011	9.49	89	194	I	X	118	12.1	162	7.1	10.3	18.7	< 0.02	0.08	< 0.02	1.14	0.115	1.24	272	178	0.080	0.21	< 10	0
Caney Boggy Creek	OK410400-06-0120G	12/19/2011	8.63	72	118	I	X	76	7.7	1662	7.5	9.8	19.4	0.04	0.54	< 0.02	0.99	0.601	1.55	186	250	0.038	0.18	25	14.377
Caney Boggy Creek	OK410400-06-0120G	1/23/2012	10.66	88.1	44.2	I		81	7.3	206	7.4	11.4	27.8		0.5	< 0.02	0.85	0.52	1.37	176	220	0.024	0.06	< 10	2.36
Caney Boggy Creek	OK410400-06-0120G	3/6/2012	9.92	96.7	17.5	I		56	14.2	255	7.6	14.4	38.2		0.04	< 0.02	0.71	0.06	0.77	194	107	0.009	0.04	< 10	25.556
Caney Boggy Creek	OK410400-06-0120G	4/2/2012	6.47	74.6	17.8	I	X	51	22.7	222	7.3	11.4	28.3		0.12	< 0.02	0.57	0.14	0.71	150	118	0.015	0.05	< 10	11.578
Caney Boggy Creek	OK410400-06-0120G	5/7/2012	4.21	50.3	16.4	I		105	24.3	282	7.3	14.8	38.1		< 0.02	< 0.02	1.08	0.04	1.12	166	154	0.015	0.06	< 10	4.524
Caney Creek (lower)	OK410400-02-0200G	6/14/2010	5.85	73.2	28	O		106	27.3	403	6.8	38	40.3	0.06	0.17	< 0.02	0.61	0.249	0.8	246	158	0.025	0.04	< 10	0.33
Caney Creek (lower)	OK410400-02-0200G	7/19/2010	6.34	82.9	31	I	X	103	28.9	277	6.8	21.9	18.4	0.35	0.22	< 0.02	0.61	0.249	0.8	177	134	0.051	0.07	< 10	0.381
Caney Creek (lower)	OK410400-02-0200G	8/23/2010	3.37		32.1	O		122	28.1	376	6.6	42.3	24.9	0.37	0.05	< 0.02	1.7	0.442	1.77	244	147	0.032	0.09	30	0
Caney Creek (lower)	OK410400-02-0200G	9/27/2010	5.57	59.6	80.6	I	X	55	18.8	126	6.1	10.6	1719	0.14	0.4	< 0.02	1.42	0.564	1.84	195	112	0.038	0.11	33	0.52
Caney Creek (lower)	OK410400-02-0200G	11/1/2010	4.57	45.6	19	O		81	15.3	319	6.3	41.2	25.8	0.06	0.03	< 0.02	0.81	0.11	0.86	202	123	0.042	0.07	< 10	0.331
Caney Creek (lower)	OK410400-02-0200G	12/13/2010	9.63	76.4	110	I		71	3.7	309	6.3	35.5	29.3	0.06	0.04	< 0.02	0.74	0.124	0.8	237	199	0.048	0.09	60	0.642
Caney Creek (lower)	OK410400-02-0200G	1/24/2011	8.26	88.1	19.7	I	X	61	4	354	7.8	36.9	50.6	0.03	0.04	< 0.02	0.66	0.09	0.72	239	139	0.022	0.03	< 10	4.413
Caney Creek (lower)	OK410400-02-0200G	3/7/2011	12.04	10.8	9.91	I		90	10.5	394	7.5	38.9	50.2	< 0.02	< 0.02	< 0.02	0.33	0.055	0.37	220	168	0.012	0.02	< 10	2.453
Caney Creek (lower)	OK410400-02-0200G	4/11/2011	5.27	58.9	14.9	I	X	101	20.7	392	7.3	34.9	34.6	0.06	0.04	< 0.02	0.8	0.12	0.86	237	163	0.027	0.07	< 10	2.174
Caney Creek (lower)	OK410400-02-0200G	5/16/2011	8.13	83.6	21.3	I	X	58	16.7	289	6.7	22.8	27.3	0.06	0.11	0.05	0.83	0.217	0.99	203	94	0.029	0.06	< 10	1.626
Caney Creek (lower)	OK410400-02-0200G	6/28/2011	4.65	57	7.35	O		196	25.7	969	7	161	76.6	0.04	0.06	< 0.02	0.43	0.124	0.51	626	376	0.007	0.03	< 10	0
Caney Creek (lower)	OK410400-02-0200G	8/1/2011	2.02	25.2	12.8	O		230	26	1215	7.4	246	106.5	0.1	0.09	< 0.02	0.72	0.21	0.83	746	500	0.014	0.05	11	0
Caney Creek (lower)	OK410400-02-0200G	9/6/2011	5.29	52.6	13.3	I		222	15.4	1604	7.2	330	130.7	< 0.02	0.37	< 0.02	0.64	0.405	1.03	1064	556	0.031	0.04	< 10	0
Caney Creek (lower)	OK410400-02-0200G	10/18/2011	14.4	12.7	21	O		274	11.6	156	7.5	357	139.7	0.02	< 0.02	< 0.02	1.17	0.062	1.21	1041	630	0.040	0.13	15	0
Caney Creek (lower)	OK410400-02-0200G	11/28/2011	7.73	61.1	34.5	I	X	24	5.4	323	6.6	30.5	110.2	0.11	1.11	< 0.02	0.94	1.242	2.07	264	238	0.230	0.07	< 10	0.513
Caney Creek (lower)	OK410400-02-0200G	1/3/2012	9.16	69.5	23.7	I		44	3.5	465	6.9	42.7	85.5	0.06	0.25	< 0.02	0.55	0.328	0.82	246	290	0.025	0.03	< 10	0.668
Caney Creek (lower)	OK410400-02-0200G	1/30/2012	10.47	85.2	30.2	I	X	25	6.4	251	6.8	20.2	61.7		0.81	< 0.02	0.92	0.83	1.75	213	106	0.021	0.05	11	
Caney Creek (lower)	OK410400-02-0200G	3/13/2012				I	X	42	14.2	242	7	27.2	58.2		0.1	< 0.02	0.86	0.12	0.98	214	132	0.025	0.06	15	10.644
Caney Creek (lower)	OK410400-02-0200G	4/10/2012	7.14	74.8	36.8	I	X	57	17.1	291	7	24.2	45.3		0.15	0.07	1.21	0.22	1.43	234	114	0.065	0.1	14	
Caney Creek (lower)	OK410400-02-0200G	5/14/2012			24	I		99	18.6	397	7	33.9	55.5		0.2	< 0.02	0.81	0.22	1.03	258	178	0.035	0.07	15	1.819
Caney Creek (upper)	OK410400-03-0020C	6/8/2010	7.48	92.1	6.88</td																				

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Caney Creek (upper)	OK410400-03-0020C	9/21/2010	5.26	62.9	4.62	O		131	23.9		7.9	33	18.5	0.05	0.02	< 0.02	0.97	0.086	1.01	256	180	0.019	0.04	< 10	< 0.1
Caney Creek (upper)	OK410400-03-0020C	10/26/2010			26.9	O		203		610	7.8	71.4	24	< 0.02	< 0.02	< 0.02	0.98	0.055	1.02	352	250	0.052	0.08	< 10	< 0.1
Caney Creek (upper)	OK410400-03-0020C	12/14/2010			9.13	O		233		723	8	78.5	33.9	< 0.02	< 0.02	< 0.02	0.46	0.055	0.5	449	270	0.021	0.04	< 10	< 0.1
Caney Creek (upper)	OK410400-03-0020C	1/19/2011	11.88	91.5	17.4	O		169	4.3	517	8.2	40.2	26.6	< 0.02	< 0.02	< 0.02	0.53	0.055	0.57	292	200	0.020	0.04	< 10	1.037
Caney Creek (upper)	OK410400-03-0020C	2/22/2011	10.71	99.8	3.67	O		181	12.1	498	8.2	32.4	26.4	0.03	< 0.02	< 0.02	0.42	0.071	0.46	310	80	0.010	0.03	< 10	1.927
Caney Creek (upper)	OK410400-03-0020C	4/5/2011	9.44	98.5	4.67			228	17.8	617	8.2	65.9	28	< 0.02	< 0.02	< 0.02	0.35	0.055	0.39	380	280	0.006	0.03	< 10	< 0.1
Caney Creek (upper)	OK410400-03-0020C	5/17/2011	9.12	92.6	O			16.1	243			18.3	16.4	0.02	0.05	< 0.02	0.84	0.09	0.91	250		0.010	0.06	< 10	7.23
Caney Creek (upper)	OK410400-03-0020C	6/21/2011	5.8	71.8	3.16	O		237	26	699		78.3	50.5	0.03	0.03	< 0.02	0.59	0.082	0.64	438	250	0.021	0.04	< 10	
Caney Creek (upper)	OK410400-03-0020C	7/27/2011	5.55	69.6	6.47	O		154	27.8	437	7.9	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	190	< 0.005	< 0.01	< 10	0
Caney Creek (upper)	OK410400-03-0020C	10/12/2011	5.55	60.6	2.52	O		142	19.7	622	7.3	66	45.7	0.03	< 0.02	< 0.02	0.59	0.068	0.63	343	160	0.008	0.02	< 10	0
Caney Creek (upper)	OK410400-03-0020C	11/16/2011	6.15	60	5.37	I	X	213	14.3	679	7.6	62.4	46.1	< 0.02	< 0.02	< 0.02	0.63	0.055	0.67	403	260	0.010	0.07	< 10	0
Caney Creek (upper)	OK410400-03-0020C	12/20/2011	9.46	81.6	9.18	I	X	136	8.8	386	8	15.9	31.9	< 0.02	0.97	0.05	0.59	1.035	1.61	223	306	0.017	0.04	< 10	3.551
Caney Creek (upper)	OK410400-03-0020C	1/24/2012	11.16	92	4.6	I		202	6.9	488	8	27.8	40.8		< 0.02	< 0.02	0.6	0.04	0.64	289	225	0.008	0.03	< 10	0.651
Caney Creek (upper)	OK410400-03-0020C	3/5/2012	10	103	7.24	I		315	17	456	8.2	28.9	33.3		< 0.02	< 0.02	0.55	0.04	0.59	288	218	0.006	0.03	< 10	3.889
Caney Creek (upper)	OK410400-03-0020C	4/3/2012	5.65	61.9	18.8	I	X	187	19.7	374	7.8	19.5	24.1		0.12	0.03	0.89	0.15	1.04	284	334	0.031	0.07	16	27.976
Caney Creek (upper)	OK410400-03-0020C	5/8/2012	6.46	70.9	581	I	X	119	20	315	7.7	23.3	22.5		0.46	< 0.02	2.75	0.48	3.23	260	195	0.309	0.56	310	
Cedar Creek	OK410300-03-0020M	6/8/2010	4.7	60.4	6.85	O		19.8	28.4	77.3	6.3	8.1	5.6	0.05	0.03	< 0.02	0.39	0.096	0.44	58	17.8	0.016	0.04	< 10	4.241
Cedar Creek	OK410300-03-0020M	7/13/2010	4.57	59	8.32	O		17.3	28.6	74.4	6.3	< 0.5	< 0.2	0.03	< 0.02	< 0.02	0.15	0.065	0.19	< 10	18.7	< 0.005	0.01	< 10	66.987
Cedar Creek	OK410300-03-0020M	8/17/2010	4.07	53.6	5.95	O		17.8	30.1	78.8	6.5	10.8	4.7	0.08	0.02	< 0.02	1.38	0.118	1.42	45	17.2	0.009	0.03	< 10	3.496
Cedar Creek	OK410300-03-0020M	9/21/2010	5.86	73.3	2.45	O		23	27	89.7	6.5	9.5	4.2	< 0.02	< 0.02	< 0.02	0.77	0.055	0.81	34	23	0.006	0.03	< 10	
Cedar Creek	OK410300-03-0020M	10/26/2010	4.56	49.3	2.45	O		30	19.1	110	6.7	10.9	4	< 0.02	< 0.02	< 0.02	0.97	0.055	1.01	55	35.5	< 0.005	0.02	< 10	0
Cedar Creek	OK410300-03-0020M	12/8/2010	8.81	70.8	2.44	O		43	6.4	141	6.8	12.2	4.4	< 0.02	< 0.02	< 0.02	0.45	0.055	0.49	68	51	0.008	0.01	< 10	0
Cedar Creek	OK410300-03-0020M	1/19/2011	11.93	92.3	20	O		12	4.6	75.8	7	11.6	7.9	< 0.02	< 0.02	< 0.02	0.3	0.055	0.34	123	30.6	0.007	0.03	< 10	6.987
Cedar Creek	OK410300-03-0020M	2/23/2011	9.72	92.4	9.89	O		14.4	13.1	85.8	6.8	13	10	< 0.02	< 0.02	< 0.02	0.29	0.055	0.33	43	24.8	< 0.005	0.03	< 10	13.467
Cedar Creek	OK410300-03-0020M	4/5/2011	6.76	65.6	2.86	O		17.3	14	101	7	14.9	10.4	< 0.02	< 0.02	< 0.02	0.35	0.055	0.39	70	30	0.006	0.01	< 10	3.847
Cedar Creek	OK410300-03-0020M	5/17/2011	7.9	85.3	8.4	O		18.6	19	64.7	6.7	6.4	7.8	< 0.02	< 0.02	< 0.02	0.39	0.055	0.43	64	22.1	0.007	0.03	< 10	17.753
Cedar Creek	OK410300-03-0020M	6/21/2011	4.3	53	5.72	O		32	25.7	30	6.6	7.4	4.6	0.05	< 0.02	< 0.02	0.55	0.094	0.59	62	32.5	0.010	0.04	< 10	0
Cedar Creek	OK410300-03-0020M	7/27/2011	3.88	49.5	6.31	O		37	28.1	112	6.6	10.1		< 0.02	< 0.02	< 0.02	0.99	0.055	1.03	72	108	0.007	0.04	< 3.9	0
Cedar Creek	OK410300-03-0020M	8/30/2011	4.3	54.2	3.77	O		38.2	27	162	6.5	22	3.4	< 0.02	< 0.02	< 0.02	0.86	0.055	0.9	124	33	< 0.005	0.02	< 10	0
Cedar Creek	OK410300-03-0020M	10/18/2011	6.65	68.1	23.1	O	X	114	16.3	216	7.4	12.1	13.6	0.03	0.12	< 0.02	0.81	0.173	0.95	125	50	0.032	0.06	< 10	0
Cedar Creek	OK410300-03-0020M	11/15/2011	6.12	62.9	16.7	O		17	16.7	47.7	6.2	5.6	7.4	0.02	1.59	< 0.02	0.83	1.634	2.44	78	18	0.009	0.01	< 10	< 0.2
Cedar Creek	OK410300-03-0020M	12/20/2011	9.96	88.8	21.5	I	X	11.2	10.2	66.2	6.3	5.4	8.7	0.02	1.53	< 0.02	0.4	1.57	1.95	39	19.5	0.028	0.07	< 10	
Cedar Creek	OK410300-03-0020M	1/24/2012	8.22	70.2	4.54	O		37	8.5	70.1	6.5	7.6	7.8		0.86	< 0.02	0.32	0.88	1.2	60	38	< 0.005	0.01	< 10	19.086
Cedar Creek	OK410300-03-0020M	3/6/2012	9.08	86.5	4.29	O		9.3	12.8	71	6.5	7	8.3		0.42	< 0.02	0.39	0.44	0.83	77	5.8	< 0.005	0.02	< 10	17.626
Cedar Creek	OK410300-03-0020M	4/3/2012	6.1	70	4.12			75	22.2	67.8	6.5	4.6	7.4		0.27	< 0.02	0.2	0.29	0.49	53	12.1	0.006	0.02	< 10	
Cedar Creek	OK410300-03-0020M	5/8/2012	5.5	64.4	79.7	I	X	42	23.2	96.1	6.6	6.3	5.8		0.2	< 0.02	0.78	0.22	1	91	45	0.052	0.13	41	4.599
Cloudy Creek	OK410210-02-0300C	6/8/2010	4.07	51.5	4.37	O		16	27.4	70.8	6.4	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	0.11	0.055	0.15	< 10	15.3	< 0.005	0.01	< 10	9.63
Cloudy Creek	OK410210-02-0300C	7/13/2010	2.39	31	4.3	O		8.3	28.7	62.9	6.3	6.6	3	0.06	< 0.02	< 0.02	0.85	0.102	0.89	43	23.5	0.012	0.03	< 10	
Cloudy Creek	OK410210-02-0300C	8/17/2010</td																							

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Cloudy Creek	OK410210-02-0300C	12/8/2010	7.5	59.3	1.92	O		13.7	5.3	78	6.5	11.7	10.1	< 0.02	< 0.02	< 0.02	0.35	0.055	0.39	68	50.2	< 0.005	0.01	< 10	0.565
Cloudy Creek	OK410210-02-0300C	1/19/2011	11.66	89.7	12	O		10.2	4.4	87.2	6.9	13.7	7.4	0.04	0.08	< 0.02	0.26	0.055	0.3	57	26.6	< 0.005	0.02	< 10	69.93
Cloudy Creek	OK410210-02-0300C	2/23/2011	8.02	74.6	7.99	O		13.6	12.1	99.7	6.6	16.4	11.4	< 0.02	< 0.02	< 0.02	0.26	0.055	0.3	69	31.3	< 0.005	0.02	< 10	7.951
Cloudy Creek	OK410210-02-0300C	4/5/2011	5.83	58	3.97	O		15.6	15.1	97.4	7	14.4	10.5	0.02	< 0.02	< 0.02	0.58	0.057	0.62	65	20.3	0.008	0.03	< 10	1.489
Cloudy Creek	OK410210-02-0300C	5/17/2011	6.19	65.5	10.6	O		21.6	18	56.9	6.6	6.4	5.8	0.03	0.03	< 0.02	0.36	0.08	0.41	70	19	0.013	0.04	< 10	9.464
Cloudy Creek	OK410210-02-0300C	6/20/2011	7	99.6	3.99	O		19.7	34.8	67.7	6.9	6.3	3.9	0.03	< 0.02	0.02	0.51	0.07	0.55	132	60.1	0.006	0.05	< 10	>= 0.2
Cloudy Creek	OK410210-02-0300C	7/26/2011	5.47	75	8.04	I	X	102	31.9	190	7.4	11	0.8	0.03	< 0.02	< 0.02	1.41	0.074	1.45	98	23.5	< 0.005	< 0.01	< 10	0
Cloudy Creek	OK410210-02-0300C	8/30/2011	1.68	21.2	2.75	O		31.7	26.7	96	6.4	7.2	1.5	< 0.02	< 0.02	< 0.02	0.7	0.055	0.44	83	30	< 0.005	0.03	< 10	0
Cloudy Creek	OK410210-02-0300C	10/17/2011	7.24	82.5	6.03	O		46	22.5	128	8	9	6.9	0.03	< 0.02	< 0.02	0.53	0.071	0.57	80	21	0.010	0.51	< 10	< 0.1
Cloudy Creek	OK410210-02-0300C	11/14/2011	4.97	53.3	18.4	O		20	18.8	91.8	6.5	8.3	4.3	< 0.02	0.24	< 0.02	0.83	0.275	1.09	56	13.2	< 0.005	0.02	< 10	13.864
Cloudy Creek	OK410210-02-0300C	12/19/2011	11.03	96.6	6.51	O		1.3	9.4	554	6.9	5.3	7.1	< 0.02	1.01	< 0.02	0.19	1.045	1.22	28	7.9	< 0.005	< 0.01	< 10	0.644
Cloudy Creek	OK410210-02-0300C	1/23/2012	11.42	99.9	5.19	O		7.8	9.4	63.3	7	7.9	7.3	0.5	< 0.02	0.3	0.52	0.82	0.82	53	13.5	< 0.005	0.01	< 10	4.04
Cloudy Creek	OK410210-02-0300C	3/5/2012	10.54	103	3.67	O		9.5	14.4	67.7	6.9	8.5	7.1	0.24	< 0.02	0.35	0.26	0.61	0.61	80	14.5	< 0.005	0.02	< 10	5.472
Cloudy Creek	OK410210-02-0300C	4/2/2012	8.12	94.1	4.98			10.5	22.5	56.2	6.7	6.3	6.2	0.15	< 0.02	0.17	0.17	0.34	0.34	58	16.3	< 0.005	0.03	< 10	1.167
Cow Creek	OK410210-06-0350G	5/7/2012	7.3	92.5	2.48	O		19.5	27.7	73.4	6.8	8.2	5.4	< 0.02	< 0.02	0.38	0.04	0.42	36	91	0.005	0.02	< 10	0	
Cow Creek	OK410210-06-0350G	6/7/2010	6.65	76.6	8.35	O	X	144	22.6	35.6	6	2.2	2	0.02	0.08	0.02	0.19	0.116	0.29	28	13.8	0.009	0.02	< 10	45.106
Cow Creek	OK410210-06-0350G	7/12/2010	4.69	59.2	5.48	O		39.4	26.5	48.2	6.7	2.7	1.6	0.03	0.05	< 0.02	0.41	0.099	0.48	34	265	0.011	0.03	< 10	0
Cow Creek	OK410210-06-0350G	8/16/2010	5.99	79.9	5	O		273	30.5	56.4	6.2	2.1	1.1	0.02	< 0.02	< 0.02	0.59	0.059	0.63	61	8.4	< 0.005	0.02	< 10	4.419
Cow Creek	OK410210-06-0350G	9/20/2010	8.32	98.1	8.02	I	X	16.3	23.5	29.1	5.1	1.7	3.1	0.02	< 0.02	< 0.02	0.31	0.055	0.35	25	13.6	< 0.005	0.02	< 10	2.936
Cow Creek	OK410210-06-0350G	10/25/2010	4.8	50.2	22.6	I	X	25.7	18	43.4	5.3	2.1	2	< 0.02	< 0.02	< 0.02	0.39	0.055	0.43	44	15.3	< 0.005	0.02	< 10	0
Cow Creek	OK410210-06-0350G	12/7/2010	11.07	89.9	11.4	O		17.3	6.3	30.5	6	1.9	2.8	< 0.02	< 0.02	< 0.02	0.24	0.055	0.28	54	8.9	0.006	0.01	< 10	9.878
Cow Creek	OK410210-06-0350G	1/18/2011	9.13	76.2	8.47	O		5.6	7.5	18.9	6.5	2.2	3.4	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	50	8.4	< 0.005	0.02	< 10	9.365
Cow Creek	OK410210-06-0350G	2/22/2011	11.23	98.9	7.54	O		5.6	9.8	26	6.4	1.7	3.2	< 0.02	< 0.02	< 0.02	0.15	0.055	0.19	61	7.4	< 0.005	0.01	< 10	4.419
Cow Creek	OK410210-06-0350G	4/4/2011	9.21	93.9	6.08	O		9.4	16.4	29.6	6.3	1.6	2.8	0.02	< 0.02	< 0.02	0.12	0.057	0.16	49	6.5	< 0.005	0.01	< 10	27.831
Cow Creek	OK410210-06-0350G	5/23/2011	9.42	97	16.6	I	X	7.7	16.8	28.7	5.3	1.4	2.5	< 0.02	0.02	< 0.02	0.16	0.055	0.2	43	8.5	0.007	0.01	< 10	0.786
Cow Creek	OK410210-06-0350G	6/20/2011	6.33	78.5	5.73	O		14.4	26.3	35.3	6.6	1.8	1.7	< 0.02	0.05	< 0.02	0.16	0.085	0.23	61	22.1	0.009	0.05	< 10	0
Cow Creek	OK410210-06-0350G	8/1/2011	6.28	82	31.9	O		31	28.6	72.3	6.5	2.7	0.7	0.06	0.05	< 0.02	0.99	0.127	1.06	87	24.1	< 0.005	0.01	< 10	0
Cow Creek	OK410210-06-0350G	8/29/2011	3.56	43.4	8.72	O		28.4	25.5	110	7.2	2.6	2	0.04	0.06	< 0.02	0.83	0.124	0.91	50	35.4	0.006	0.02	< 10	0
Cow Creek	OK410210-06-0350G	10/10/2011	8.25	92.8	8.99	O		41.5	21.8	99.1	7	3.1	3.6	< 0.02	< 0.02	< 0.02	0.65	0.055	0.69	41	6.8	< 0.005	0.05	< 10	6.994
Cow Creek	OK410210-06-0350G	11/14/2011	8.62	88.1	8.6	I	X	10.8	16.5	35.7	6.1	3.1	3.8	< 0.02	0.29	< 0.02	0.21	0.325	0.52	40	9.1	< 0.005	< 0.01	< 10	36.397
Cow Creek	OK410210-06-0350G	12/19/2011	11.12	98.2	4.09	I	X	8.8	9.9	18.1	6.5	2.2	3	< 0.02	0.06	< 0.02	< 0.11	0.095	0.19	40	5	< 0.005	< 0.01	< 10	8.759
Cow Creek	OK410210-06-0350G	1/23/2012	11.18	94.9	3.29	O		10	8.2	25.9	6.2	2	2.9	< 0.02	< 0.02	< 0.02	0.11	0.04	0.15	21	6.3	< 0.005	0.01	< 10	15.163
Cow Creek	OK410210-06-0350G	3/5/2012	11.13	103	3.02	O		8.2	11.9	26	6.3	2.6	3	< 0.02	< 0.02	< 0.02	0.16	0.04	0.2	42	6.7	< 0.005	0.01	< 10	3.184
Cow Creek	OK410210-06-0350G	4/2/2012	9.49	102	6.02			9.8	19.8	25	6.9	1.6	2.6	< 0.02	< 0.02	< 0.02	0.21	0.04	0.25	37	11.6	< 0.005	0.01	< 10	3.574
Cow Creek	OK410210-06-0350G	5/7/2012	8.37	95.5	5.1	O		10.3	22.6	28.9	6.1	1.8	2.2	< 0.02	0.03	< 0.02	< 0.11	0.05	0.16	37	29	< 0.005	0.01	< 10	0
Cypress Creek	OK410210-01-0070G	6/7/2010	5.58	73.2	5.45	O		14	29.5	52.5	6.6	3.5	2.9	0.02	< 0.02	< 0.02	< 0.11	0.063	0.15	40	14.5	0.005	0.05	< 10	0
Cypress Creek	OK410210-01-0070G	7/12/2010	4.84	66.7	3.6	O		19	32.5	53.7	6.6	4.9	2	0.02	< 0.02	< 0.02	0.68	0.063	0.72	37	12.6	0.005	0.03	< 10	0
Cypress Creek	OK410210-01-0070G	8/16/2010	5.7	81.5	6.12	O		18.7	31.8	62.9	6.3	7.8	1.7	0.02	< 0.02	< 0.02	0.82	0.							

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Cypress Creek	OK410210-01-0070G	1/18/2011			8.77	O		8.5	6.9	60.2	6.6	6.2	7.5	< 0.02	0.16	< 0.02	< 0.11	0.195	0.29	55	28.5	< 0.005	0.01	< 10	4.449
Cypress Creek	OK410210-01-0070G	2/22/2011	10.09	97.2	2.94	O		12.1	13.7	62.4	6.8	6.7	6.6	< 0.02	< 0.02	< 0.02	< 0.02	0.055	0.32	25	15.3	< 0.005	< 0.01	< 10	5.368
Cypress Creek	OK410210-01-0070G	4/4/2011	7.36	81	2.2	O		14	20	67.9	7	7.6	5.5	< 0.02	< 0.02	< 0.02	< 0.02	0.055	0.36	54	17.6	< 0.005	0.01	< 10	1.617
Cypress Creek	OK410210-01-0070G	5/16/2011	8.85	96.1	4.39	O		11	19.3	43.2	6.6	3.8	4.4	< 0.02	< 0.02	< 0.02	< 0.02	0.055	0.37	47	13.8	< 0.005	0.01	< 10	4.131
Cypress Creek	OK410210-01-0070G	6/21/2011	5.21	67	4.03	O		20.5	29.1	67.1	6.8	4.9	2.8	< 0.02	0.03	< 0.02	0.058	0.065	0.63	58	11	0.006	0.03	< 10	0
Cypress Creek	OK410210-01-0070G	7/27/2011	4.49	61	3.72	O		17.2	30.3	88.6	6.8	4.8	2.1	< 0.02	< 0.02	< 0.02	0.73	0.055	0.77	60	57	< 0.005	0.03	< 10	0
Cypress Creek	OK410210-01-0070G	8/29/2011	8.55	117	3.88	O		35.4	31	93.4	6.9	6	0.9	< 0.02	0.02	< 0.02	1.02	0.055	1.06	102	29.8	< 0.005	0.04	< 10	0
Cypress Creek	OK410210-01-0070G	10/18/2011	6.06	63.7	3.55	O		23	17.3	68.4	6.7	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	39	< 0.005	< 0.01	< 10	0
Cypress Creek	OK410210-01-0070G	11/15/2011	6.16	66.8	7.98	O		11	19.7	141	6.2	16.7	10.4	< 0.02	5.06	< 0.02	1.04	5.095	6.12	88	20	< 0.005	0.03	< 10	0
Cypress Creek	OK410210-01-0070G	12/20/2011	10.55	96.6	15.6	I	X	1.2	11.4	60	6.7	5.6	5.8	< 0.02	2.49	< 0.02	0.35	2.525	2.86	85	12.4	0.008	0.04	< 10	0
Cypress Creek	OK410210-01-0070G	1/24/2012	9.97	1.49	1.49	O		2.2	8.4	61.7	8.2	6.8	6.2		1.27	< 0.02	0.25	1.29	1.54	53	12	< 0.005	0.01	< 10	2.51
Cypress Creek	OK410210-01-0070G	3/6/2012	9.2	86.9	2.39	O		4.2	12.8	56.2	7.7	6.8	6.7		0.38	< 0.02	0.31	0.4	0.71	51	1.3	< 0.005	0.01	< 10	2.424
Cypress Creek	OK410210-01-0070G	4/3/2012	6.67	75.1	3.97			7.4	21.2	47.5	6.9	3.7	4.6		0.06	< 0.02	0.17	0.08	0.25	56	7.9	< 0.005	0.01	< 10	0
Cypress Creek	OK410210-01-0070G	5/8/2012	5.72	68.7	3.14	O		14.3	24.6	57.2	6.9	5.4	3.4		0.04	< 0.02	0.29	0.06	0.35	54	9.8	< 0.005	0.02	< 10	0.404
Delaware Creek	OK410400-03-0240M	6/7/2010	8.16	102	7.15	I		221	26.5	635	8.1	51.9	18.1	0.04	0.15	< 0.02	< 0.11	0.207	0.28	341	266	0.024	0.06	< 10	13.083
Delaware Creek	OK410400-03-0240M	7/12/2010	6.95	88.3	25	I	X	160		419	8	25.8	11.8	0.07	0.16	< 0.02	0.76	0.249	0.94	231	176	0.068	0.1	18	55.671
Delaware Creek	OK410400-03-0240M	8/16/2010	7.3	94.6	4.45	O		23	29.5	836	8.1	221	17.8	0.02	< 0.02	< 0.02	0.66	0.057	0.7	495	350	0.008	0.03	< 10	0
Delaware Creek	OK410400-03-0240M	9/20/2010	5.94	71.5	4.79	O		215	24.5		7.8	69.8	15.6	0.03	0.06	< 0.02	0.58	0.113	0.66	336	390	0.036	0.05	< 10	< 0.1
Delaware Creek	OK410400-03-0240M	10/25/2010			3.61	O		262		534	7.7	123	14.8	< 0.02	< 0.02	< 0.02	0.96	0.055	1	451	355	0.100	0.12	< 10	0
Delaware Creek	OK410400-03-0240M	12/13/2010			3.94	I		279		877	8	101	17.2	< 0.02	< 0.02	< 0.02	0.42	0.055	0.46	501	405	0.044	0.05	< 10	< 0.1
Delaware Creek	OK410400-03-0240M	1/18/2011	12.2	81.2	2.69	O		215	6.1	437	8.3	61.8	17.9	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	330	345	0.011	0.02	< 10	< 0.1
Delaware Creek	OK410400-03-0240M	2/21/2011	8.89	87.4	2.95	O		204	15.1	559	8.3	46.7	20	< 0.02	< 0.02	< 0.02	0.13	0.055	0.17	286	215	0.019	0.04	< 10	4.26
Delaware Creek	OK410400-03-0240M	4/4/2011	8.86	91	2.32	O		228	16.7	685	8.2	72.8	18.4	< 0.02	< 0.02	< 0.02	0.39	0.055	0.43	368	280	0.021	0.04	< 10	2.232
Delaware Creek	OK410400-03-0240M	5/16/2011	8.42	86.7	5.39	I		192	16.8	583	8	59.9	20.8	0.06	0.17	0.22	0.55	0.452	0.94	336	165	0.043	0.06	< 10	3.921
Delaware Creek	OK410400-03-0240M	6/20/2011	8.28	101	6.3	O		188	25.8	419		43	11.9	0.1	0.04	< 0.02	0.82	0.159	0.88	308	335	0.066	0.09	< 10	0
Delaware Creek	OK410400-03-0240M	8/29/2011	2.88	34.7	6.39	O		183	24.9	527	7.9	38	13	0.3	< 0.02	0.07	1.62	0.386	1.71	315	225	0.066	0.12	< 10	0
Delaware Creek	OK410400-03-0240M	10/11/2011	4.66	48.4	21.6	I	X	106	17.6	386	7.5	27.4	20	< 0.02	< 0.02	< 0.02	1	0.055	1.04	217	150	0.046	0.08	< 10	0
Delaware Creek	OK410400-03-0240M	11/15/2011	6.63	66.8	20.4	I	X	141	16.7	296	7.6	13.4	23.7	0.03	< 0.02	< 0.02	1.11	0.067	1.15	212	166	0.124	0.19	< 10	0
Delaware Creek	OK410400-03-0240M	12/19/2011	10.67	90.1	3.29	I	X	192	8	512	8.2	31.9	32.4	< 0.02	3.08	0.19	0.47	3.285	3.74	300	154	0.013	0.07	< 10	17.311
Delaware Creek	OK410400-03-0240M	1/23/2012	11.59	9.1	1.28	O		198	8.5	552	8.4	39.3	35.3		1.34	< 0.02	0.56	1.36	1.92	309	410	0.009	0.03	< 10	4.96
Delaware Creek	OK410400-03-0240M	3/5/2012	11.04	101	2.38	I		274	11.7	588	8.4	38.9	31.7		0.27	< 0.02	0.4	0.29	0.69	326	290	0.007	0.02	< 10	10.768
Delaware Creek	OK410400-03-0240M	4/2/2012	7.68	89.1	12.5	I	X	228	22.5	552	8.2	38.1	24.7		0.12	< 0.02	0.58	0.14	0.72	319	382	0.062	0.09	11	41.718
Delaware Creek	OK410400-03-0240M	5/7/2012	5.89	68.6	17.6	I	X	291	23	733	8.2	76	25.4		0.19	< 0.02	0.64	0.21	0.85	412	354	0.044	0.08	< 10	0
East Fork Glover River	OK410210-09-0010G	6/7/2010	5.2	65.7	3.7	O		15.2	27.4	39.6	6.6	2.2	2.3	0.03	< 0.02	< 0.02	< 0.11	0.071	0.15	48	10.8	< 0.005	0.03	< 10	6.394
East Fork Glover River	OK410210-09-0010G	7/12/2010	6.42	78.9	21.5	I	X	9.7	25.9	38.6	6.6	3.8	3.9	0.05	0.14	< 0.02	0.77	0.205	0.93	56	21.3	0.012	0.04	< 10	66.656
East Fork Glover River	OK410210-09-0010G	8/16/2010	5.56	75.9	5.04	O		18.2	31.3	47.7	6.6	3.6	2.1	0.04	0.03	< 0.02	0.72	0.087	0.77	20	14.5	0.015	0.04	< 10	0
East Fork Glover River	OK410210-09-0010G	9/20/2010	6.22	75.1	6.31	O		128	24.8	41	6.5	2.9	2.9	0.02	< 0.02	< 0.02	0.7	0.061	0.74	12	13.2	< 0.005	0.03	< 10	4.775
East Fork Glover River	OK410210-09-0010G	10/25/2010	7.12	76	6.32	O		13.8	18.4	44.8	6.6	4.8	3.2	< 0.02	0.02	< 0.02	0.43	0.055	0.47	< 10	13.7	< 0.005	0.02	< 10	13.19
East Fork Glover River	OK410210																								

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)	
East Fork Glover River	OK410210-09-0010G	4/4/2011	8.18	85.9	5.67	O		12.2	17.8	39.2	6.9	3	3.3	< 0.02	0.08	< 0.02	0.24	0.115	0.34	43	11.9	< 0.005	0.02	< 10	13.547	
East Fork Glover River	OK410210-09-0010G	5/16/2011	8.66	89.4	6.88	O		12.9	16.9	30.9	6.5	2.8	3.6	< 0.02	0.03	< 0.02	0.2	0.065	0.25	47	8.5	< 0.005	0.01	< 10	49.476	
East Fork Glover River	OK410210-09-0010G	6/20/2011	5.07	65.6	2.76	O		15	28.4	43.6	6.6	2.4	1.9	< 0.02	0.02	< 0.02	0.33	0.055	0.37	56	11	< 0.005	0.02	< 10	14.181	
East Fork Glover River	OK410210-09-0010G	7/26/2011	3.06	39.1	3.13	I	X	23.5	28.4	56.6	6.5	2.6	1.1	0.04	0.03	< 0.02	0.75	0.09	0.8	56	9	0.009	0.03	< 10		
East Fork Glover River	OK410210-09-0010G	8/29/2011	3.2	40	5.96	O		28.4	26.4	71.6	6.4	3.2	1.9	0.08	0.06	< 0.02	0.99	0.161	1.07	57	23.8	0.006	0.06	< 10	0	
East Fork Glover River	OK410210-09-0010G	10/17/2011	6.47	35.1	2.23	O		50	15.8	83.4	7	6.7	2.1	0.06	0.03	< 0.02	0.96	0.107	1.01	79	43	0.006	0.04	< 10	0	
East Fork Glover River	OK410210-09-0010G	11/14/2011	9.28	72.1	12.2	O		20	14.9	55.9	6.5	4.8	4.2	< 0.02	0.59	< 0.02	0.59	0.625	1.2	52	8	< 0.005	0.04	< 10	4.869	
East Fork Glover River	OK410210-09-0010G	12/19/2011	11.01	95.9	5.05	O		1.2	9.2	35.2	6.4	2.5	3.4	< 0.02	0.65	< 0.02	0.11	0.685	0.78	17	3.2	< 0.005	< 0.01	< 10	26.384	
East Fork Glover River	OK410210-09-0010G	1/23/2012	11.94	103	3.22	O		7.2	8.8	35.4	6.5	3.5	3.7		0.31	< 0.02	< 0.11	0.33	0.44	52	7.7	< 0.005	0.01	< 10	16.025	
East Fork Glover River	OK410210-09-0010G	3/5/2012	11.05	103	3.44	O		7	12.3	36.2	6.8	3.1	3.6		0.15	< 0.02	0.21	0.17	0.12	0.29	40	7.6	< 0.005	0.01	< 10	13.784
East Fork Glover River	OK410210-09-0010G	4/2/2012	8.38	93.3	3.89			9.5	20.6	34.2	6.6	2.4	3.2		0.1	< 0.02	0.17	0.12	0.29	40	10.2	< 0.005	0.02	< 10	25.668	
East Fork Glover River	OK410210-09-0010G	5/7/2012	5.5	66.1	2.51	O		14.3	24.7	39.8	6.5	2.8	2.8		< 0.02	< 0.02	0.27	0.04	0.31	40	10.2	< 0.005	0.02	< 10	0.533	
Goose Creek	OK410400-03-0490G	6/7/2010	6.71	82.6	19.1	I	X	163	25.9	361	7.7	5	11	0.06	0.27	0.04	< 0.11	0.368	0.42	197	156	0.067	0.07	15	7.181	
Goose Creek	OK410400-03-0490G	7/12/2010	7.24	90.9	28.8	I	X	148	27.3	285	7.9	4.2	7.5	0.03	0.04	< 0.02	0.7	0.093	0.76	170	127	0.060	0.13	14	19.112	
Goose Creek	OK410400-03-0490G	8/16/2010	1.38	17.3	19.4	I		262	27.3	5.35	7.4	10.3	10.7	0.08	< 0.02	< 0.02	0.94	0.119	0.98	298	225	0.044	0.07	17		
Goose Creek	OK410400-03-0490G	9/20/2010	9.81	117	20.7	I		190	23.7	9.6	4.6	13.3	0.05	0.02	< 0.02	1.39	0.093	1.43	244	160	0.157	0.21	15	0		
Goose Creek	OK410400-03-0490G	1/18/2011	10.72	85.3	8.01	O		189		348	7.9	4.2	12.7	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	208	225	0.057	0.07	< 10	0.885	
Goose Creek	OK410400-03-0490G	2/21/2011	7.7	76.9	5.57	O		172	15.3	373	8	3.6	13.5	< 0.02	< 0.02	< 0.02	0.24	0.055	0.28	200	220	0.031	0.05	< 10	4.567	
Goose Creek	OK410400-03-0490G	4/4/2011	8.93	95.3	5.81	O		186	18.3	392	8.2	4.9	13	0.02	< 0.02	< 0.02	0.49	0.063	0.53	226	125	0.066	0.07	< 10	< 0.1	
Goose Creek	OK410400-03-0490G	5/16/2011	7.56	77.4	19.4	O	X	127	16.3	2845	7.7	3.4	12.8	0.07	0.09	0.05	0.63	0.214	0.77	190	120	0.050	0.08	< 10	0.759	
Goose Creek	OK410400-03-0490G	6/20/2011	56.8	4.68	59.6	O		204	25.2	292		3.7	6.6	0.02	0.31	0.17	1.63	0.496	2.11	248	96	0.011	0.2	31	0	
Goose Creek	OK410400-03-0490G	11/15/2011	9.82	93.8	2.42	I	X	169	13.5	560	7.4	11.2	237.3	0.06	5.37	0.11	1.71	5.54	7.19	576	476	0.051	0.09	< 10	0	
Goose Creek	OK410400-03-0490G	12/19/2011	7.91	68	6.6	I	X	40	8.8	385	8	7.7	31.2	< 0.02	3.32	< 0.02	0.75	3.355	4.09	233	147	0.041	0.11	< 10	9.156	
Goose Creek	OK410400-03-0490G	1/23/2012	10.18	86.4	1.68	I		209	8.2	356	8.4	5.8	31.4		0.51	< 0.02	0.72	0.53	1.25	217	610	0.008	0.04	< 10	1.676	
Goose Creek	OK410400-03-0490G	3/5/2012	11.19	102	2.55	I		178	11	370	8.4	4.5	18.8		0.07	< 0.02	0.56	0.09	0.65	208	460	0.008	0.04	< 10	4.903	
Goose Creek	OK410400-03-0490G	4/2/2012	7.39	84.2	7.95	I	X	188	21.8	368	8	3.5	13.4		0.04	< 0.02	0.56	0.06	0.62	217	328	0.044	0.08	< 10	28.285	
Goose Creek	OK410400-03-0490G	5/7/2012	4.49	52	17.1	I	X	237	23	417	7.9	4.3	13.3		0.19	< 0.02	0.71	0.21	0.92	231	300	0.090	0.13	< 10	1.166	
Horse Creek	OK410400-01-0040G	6/15/2010	5.14	57.3	37.8	I	X	128	24.5	464	7.5	47.3	36.8	< 0.02	0.41	< 0.02	0.9	0.445	1.33	290	129	0.089	0.14	20	0	
Horse Creek	OK410400-01-0040G	7/20/2010	3.95	50	5.92	O		133	27.1	474	7.2	51.4	37.2	0.07	1.07	< 0.02	0.82	1.161	1.91	284	291	0.125	0.18	< 10		
Horse Creek	OK410400-01-0040G	8/24/2010	4.42	56.4	12.1	O		192	28.1	5.24	7.5	61.4	43.1	0.1	0.7	< 0.02	0.92	0.821	1.64	285	222	0.155	0.2	< 10	0	
Horse Creek	OK410400-01-0040G	9/28/2010	7.33	77.6	10.1	I	X	111	18.2	484	7.2	50.2	39.6	0.04	2.13	< 0.02	0.75	2.187	2.9	275	165	0.118	0.15	< 10	1.779	
Horse Creek	OK410400-01-0040G	11/2/2010	6.83	67.4	6.52	O		114	14.8	649	6.9	52.2	27.1	0.03	6.31	< 0.02	0.25	6.359	6.58	247	221	0.155	0.15	< 10	8.294	
Horse Creek	OK410400-01-0040G	12/14/2010			11.4	O		143	4.7	293	7.9	47.3	28.4	0.93	0.23	< 0.02	1.97	1.178	2.22	296	184	0.098	0.35	< 10	6.643	
Horse Creek	OK410400-01-0040G	1/25/2011	14.14	112	8.71	O		137	5.4	531	8.1	57.3	43.9	0.02	0.4	< 0.02	1.72	0.442	2.14	276	244	0.080	0.22	< 10	11.014	
Horse Creek	OK410400-01-0040G	3/8/2011	9.86	91	5.24	O		173	11.4	391	7.8	52.9	40.6	0.02	< 0.02	< 0.02	0.91	0.063	0.95	276	217	0.054	0.12	< 10	4.972	
Horse Creek	OK410400-01-0040G	4/12/2011	7.39	76.9	10.7	I	X	143	17.3	505	7.4	47.3	38.9	0.05	4.87	< 0.02	0.96	4.937	5.85	287	169	0.117	0.14	< 10	5.264	
Horse Creek	OK410400-01-0040G	5/17/2011	4.46	45.7	8.39	I	X	255	16.3	5.36	7.3	41	40	< 0.02	< 0.02	< 0.02	1.62	0.055	1.66	319	193	0.014	1.83	< 10	4.663	
Horse Creek	OK410400-01-0040G	6/27/2011	7.65	94	1.15	O		104	27.2	527	7.6	60.7	43.4	0.03	2.33	< 0.02	1.34	2.384	3.69	302	180	0.308	0.48	< 10	0	
Horse Creek	OK410400-01-0040G	8/1/2011	5.78	74.																						

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Horse Creek	OK410400-01-0040G	12/20/2011	9.66	86.1	36	I	X	70.4	10.1	282	7.4	20	30.5	0.08	2.01	0.07	0.98	2.156	3.06	231	163	0.136	0.21	49	50.447
Horse Creek	OK410400-01-0040G	1/24/2012	9.96	85.5	6.46	O		97	8.7	436	7.8	39.1	48.5		3.05	< 0.02	0.69	3.07	3.76	274	145	0.056	0.08	< 10	1.791
Horse Creek	OK410400-01-0040G	3/6/2012	11.75	112	4.49	O		102	12.8	439	7.5	39.3	47.4		1.72	< 0.02	0.57	1.74	2.31	273	123	0.034	0.05	< 10	1.945
Horse Creek	OK410400-01-0040G	4/3/2012	6.67	73.1	5.43			98	19.8	441	7.5	33.9	42.7		1.33	0.04	0.57	1.37	1.94	251	153	0.054	0.07	< 10	2.394
Horse Creek	OK410400-01-0040G	5/8/2012	6.35	73.8	4.09	I	X	72	22.8	382	7.4	39.7	30.4		3.93	< 0.02	0.64	3.95	4.59	237	117	0.263	0.27	< 10	2.871
Island Bayou	OK410700-00-0040G	6/15/2010	5.34	66.1	49	I	X	264	26.4	932	7.4	79.7	159.8	0.12	0.14	< 0.02	1.08	0.282	1.24	582	298	0.057	0.09	45	5.054
Island Bayou	OK410700-00-0040G	7/20/2010	4.17	53.5	5.07	I	X	245	28.9	963	7.6	105	95	0.04	0.04	< 0.02	0.84	0.1	0.9	546	280	0.047	0.07	17	2.698
Island Bayou	OK410700-00-0040G	8/24/2010	2.07	26	10.4	O		260	28.1	885	7.2	58.4	20.2	0.09	0.03	< 0.02	1.05	0.142	1.1	476	277	0.626	0.62	< 10	0.36
Island Bayou	OK410700-00-0040G	9/28/2010	6.62	70	37.5	I	X	149	18.2	311	7.5	36.5	28.4	0.06	1.71	< 0.02	1.24	1.793	2.97	216	166	0.395	0.48	< 10	6.433
Island Bayou	OK410700-00-0040G	11/2/2010	6.3	60.4	5.8	O		209	13.4	796	7.3	73.9	85.9	0.02	0.66	< 0.02	0.99	0.704	1.67	457	262	1.074	1.09	< 10	8.595
Island Bayou	OK410700-00-0040G	12/14/2010	11.34	84.6	4.38	O		256	3.2	559	7.6	107	40.6	< 0.02	2.25	< 0.02	0.75	2.285	3.02	483	347	1.079	1.13	< 10	4.904
Island Bayou	OK410700-00-0040G	1/25/2011	12.57	94.7	11	I	X	232	5.9	529	7.2	84.8	51.6	0.05	4.76	< 0.02	1.07	4.827	5.85	480	296	1.087	1.16	< 10	4.857
Island Bayou	OK410700-00-0040G	3/8/2011	10.51	97.8	4.91	O		265	12.2	990	8.5	109	81.4	< 0.02	< 0.02	< 0.02	0.68	0.055	0.72	530	298	0.462	0.47	< 10	7.116
Island Bayou	OK410700-00-0040G	4/12/2011	6.16	66.1	12.1	I	X	289	18.6	1073	8	111	79.2	< 0.02	< 0.02	< 0.02	0.78	0.055	0.82	581	338	0.464	0.48	< 10	25.858
Island Bayou	OK410700-00-0040G	5/17/2011	7.24	75.1	25.3	I	X	97	17	504	7.3	28	65.3	0.04	0.74	< 0.02	0.91	0.803	1.67	300	175	0.262	0.31	< 10	11.869
Island Bayou	OK410700-00-0040G	6/27/2011	9.26	127	7.7	O		249	31.8	904	7.8	108	112.1	0.02	0.05	< 0.02	0.93	0.086	1	573	310	0.019	0.04	< 10	0.446
Island Bayou	OK410700-00-0040G	8/2/2011	11.3	144	32.8	O		448	29.4	1318	7	89.5	193	0.02	0.03	< 0.02	0.82	0.067	0.87	784	525	0.038	0.08	11	0
Island Bayou	OK410700-00-0040G	9/7/2011	5.72	60.9	6.47	O		450	19.1	1318	7.6	68	201.3	< 0.02	< 0.02	< 0.02	0.56	0.055	0.6	838	487	0.008	0.28	< 10	0
Island Bayou	OK410700-00-0040G	10/19/2011	10.33	99	7.9	O		268	13.1	108	7.5	136	92.8	0.12	0.29	< 0.02	1.01	0.431	1.32	588	41.4	0.037	0.04	< 10	0.542
Island Bayou	OK410700-00-0040G	11/29/2011	6.65	54.9	46	I	X	88	7.1	449	7.2	34.5	73.3	0.08	1.1	< 0.02	0.9	1.202	2.02	278	190	0.110	0.16	< 10	10
Island Bayou	OK410700-00-0040G	1/4/2012	9.58	76	17.3	I		156	5.4	642	7.8	54.1	98.1	0.05	1.25	< 0.02	0.81	1.32	2.08	397	590	0.139	0.18	< 10	36.69
Island Bayou	OK410700-00-0040G	1/31/2012	10.07	89.9	65.5	I	X	85	10.3	319	7.6	16.6	69.2		1.27	< 0.03	1.18	1.3	2.48	226	140	0.075	0.13	77	220.21
Island Bayou	OK410700-00-0040G	3/12/2012			12.5	I	X	113	15.7	529	8.3	47.1	166.4		0.3	< 0.02	0.73	0.32	1.05	438	560	0.066	0.09	< 10	15.011
Island Bayou	OK410700-00-0040G	4/10/2012	8.08	85.6	130	I	X	67	18.5	242	7.4	7.9	43.7		0.36	0.03	1.72	0.39	2.11	216	138	0.132	0.26	100	
Island Bayou	OK410700-00-0040G	5/15/2012			9	I		236	21.5	892	7.9	95.4	111.4		0.04	< 0.02	0.64	0.06	0.7	521	575	0.020	0.04	< 10	3.6
Leader Creek	OK410400-03-0370B	6/7/2010	6.56	80.5	46.9	I	X	70	2.57	187	7.4	10.3	10.6	0.13	0.18	0.09	0.12	0.395	0.39	120	102	0.053	0.09	29	
Leader Creek	OK410400-03-0370B	7/12/2010	6.34	79.4	70.4	I	X	52	26.9	146	7.2	7.4	6.1	0.1	0.09	< 0.02	1.67	0.206	1.78	130	40	0.087	0.16	36	
Leader Creek	OK410400-03-0370B	8/16/2010	5.14	66.3	8.71	O		169	28.6	474	7.7	33.5	22.2	0.02	< 0.02	< 0.02	0.95	0.056	0.99	265	135	0.014	0.04	< 10	0.832
Leader Creek	OK410400-03-0370B	9/20/2010	6.91	84	47.1	I	X	76	25.1		7.3	8.1	9.6	0.06	0.13	< 0.02	1.07	0.209	1.22	152	90	0.065	0.1	< 10	0.993
Leader Creek	OK410400-03-0370B	10/25/2010			52.7	I	X	100		271	7.6	14.4	13.4	< 0.02	< 0.02	< 0.02	0.8	0.055	0.84	151	155	0.034	0.08	11	0
Leader Creek	OK410400-03-0370B	12/13/2010			82.2	I		172		396	7.5	21.1	10.3	0.02	< 0.02	< 0.02	1.34	0.058	1.38	318	195	0.089	0.18	14	< 0.1
Leader Creek	OK410400-03-0370B	1/18/2011	6.08	49.2	101	I		86	5.9	251	7.9	16	13.1	0.07	0.05	< 0.02	< 0.11	0.139	0.18	195	45	0.103	0.2	11	< 0.1
Leader Creek	OK410400-03-0370B	2/21/2011	5.28	52.2	58.4	I		90	14.8	278	7.4	17.8	18	0.07	0.03	< 0.02	0.75	0.118	0.8	174	195	0.073	0.15	< 10	1.137
Leader Creek	OK410400-03-0370B	4/4/2011	9.02	96.6	22.5	O		143	18.8	364	8.3	28.3	13.2	0.03	< 0.02	< 0.02	0.82	0.067	0.86	213	120	0.029	0.07	< 10	< 0.1
Leader Creek	OK410400-03-0370B	5/16/2011	8.75	89.5	7.75	I	X	71	16.4	221	7.6	11.9	15.9	0.04	0.3	0.04	1.26	0.382	1.6	253	200	0.075	0.15	< 10	6.713
Leader Creek	OK410400-03-0370B	6/20/2011	7.02	88	31.1	I		91	26.6	186	7.6	13.1	12	0.05	0.08	< 0.02	0.98	0.152	1.08	195	32	0.040	0.08	< 10	
Leader Creek	OK410400-03-0370B	7/26/2011	0.55	0.7	127	O		190	27.8	370	7.4	24.1	5.1	0.03	< 0.02	< 0.02	1.82	0.073	1.86	272	455	0.117	0.23	53	0
Leader Creek	OK410400-03-0370B	8/29/2011	24.6	28.9	21.3	O		203	24	480	7.9	26.5	5.3	0.29	< 0.02	< 0.02	2.34	0.334	2.38	326	210	0.140	0.21	< 10	0
Leader Creek	OK410400-03-0370B	10/11/2011	0.33	3.4	90.7	I	X	169	17.4	457	6.9	18.5	6.4	< 0.02	< 0.02	< 0.02									

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Leader Creek	OK410400-03-0370B	1/23/2012	9.51	78.7	74.1	I		93	7.3	20.5	7.4	10.9	22.2		0.19	< 0.02	1.36	0.21	1.57	187	200	0.034	0.13	13	1
Leader Creek	OK410400-03-0370B	3/5/2012	7.43	67.4	45.9	I		66	10.8	221	7.5	10.7	20.6		< 0.02	< 0.02	0.89	0.04	0.93	163	105	0.028	0.1	< 10	0.617
Leader Creek	OK410400-03-0370B	4/2/2012	6.59	75.5	51.6	I	X	112	22	154	7.4	4.8	12.5		0.13	< 0.02	1.16	0.15	1.31	150	84	0.076	0.15	25	
Leader Creek	OK410400-03-0370B	5/7/2012	4.58	54	129	I	X	88	23.7	225	7.5	7.5	12.1		0.25	< 0.02	1.33	0.27	1.6	185	82	0.076	0.17	52	3.414
Lick Creek	OK410400-01-0130G	6/15/2010	5.1	56.8	98.5	I	X	111	24.6	378	7	32.6	20.5	0.06	0.09	< 0.02	1.15	0.173	1.26	254	152	0.040	0.14	38	0
Lick Creek	OK410400-01-0130G	7/20/2010	2.29	28.7	59.2	I	X	144	27.8	307	7	23.8	7.3	0.07	< 0.02	< 0.02	0.72	0.111	0.76	210	123	0.021	0.04	30	0
Lick Creek	OK410400-01-0130G	9/28/2010	3.61	39.9	101	I	X	163	18.4	239	6.2	10	17.7	0.33	0.06	0.11	2.09	0.5	2.26	196	191	0.870	0.2	< 10	0
Lick Creek	OK410400-01-0130G	11/2/2010	3.1	30.2	41.6	I	X	119	13.7	301	6.5	14.3	20.3	0.12	0.03	< 0.02	1.28	0.168	1.33	171	128	0.047	0.08	< 10	0
Lick Creek	OK410400-01-0130G	12/14/2010			46.1	I		202	3.6	187	7.1	17.7	23.3	0.06	0.14	< 0.02	1.2	0.222	1.36	242	276	0.033	0.09	< 10	0
Lick Creek	OK410400-01-0130G	1/25/2011	6.81	56	32.5	I	X	95	4.5	355	7.5	43.3	31.7	0.02	< 0.02	< 0.02	0.57	0.058	0.61	204	156	0.024	0.05	10	0
Lick Creek	OK410400-01-0130G	3/8/2011	4.78	44.5	25.6	I	X	107	11.8	442	6.9	55.9	35.6	< 0.12	< 0.02	< 0.02	0.47	0.157	0.51	221	181	0.012	0.06	< 10	0
Lick Creek	OK410400-01-0130G	4/12/2011	5.7	60	36.1	I		105	17.9	430	7.2	59.8	20.4	0.04	0.02	< 0.02	0.89	0.08	0.93	242	121	0.037	0.1	18	7.584
Lick Creek	OK410400-01-0130G	5/17/2011	3.17	32.4	46.9	I	X	103	15.9	335	6.9	30.2	23.1	0.07	0.13	0.07	0.84	0.27	1.04	233	116	0.045	0.09	< 10	6.43
Lick Creek	OK410400-01-0130G	6/27/2011	3.96	49.5	89.6	O		154	28.5	45.5	7.2	43.5	11.4	0.1	0.05	< 0.02	1.29	0.166	1.36	302	155	0.038	0.12	18	0
Lick Creek	OK410400-01-0130G	8/1/2011	9.89	130	46.8	O		198	30	557	7.4	59.4	6.9	0.15	0.04	< 0.02	1.84	0.205	1.9	307	220	0.039	0.14	22	0
Lick Creek	OK410400-01-0130G	9/6/2011	5.71	73	155	I		181	18.9	705	7.4	49.9	24.2	0.04	1.3	< 0.02	0.62	1.356	1.94	218	174	0.232	0.25	< 10	0
Lick Creek	OK410400-01-0130G	11/28/2011	6.38	53.3	50.1	I	X	85	7.5	216	6.8	12.9	46.3	0.06	0.76	< 0.02	0.99	0.839	1.77	178	21	0.060	0.12	< 10	
Lick Creek	OK410400-01-0130G	1/3/2012	8.3		22.5	I		93	5.2	244	7.4	18.1	30.8	0.05	0.39	< 0.02	0.84	0.463	1.25	200	445	0.034	0.09	< 10	0
Lick Creek	OK410400-01-0130G	1/30/2012	10.58	90.9	24.4	I	X	18	8.3	230	7.2	22.9	31.9		1.45	< 0.02	0.81	1.47	2.28	175	204	0.026	0.06	< 10	13.073
Lick Creek	OK410400-01-0130G	3/12/2012			46.2	I	X	39	12.2	196	7.3	19	20.5		0.41	< 0.02	1	0.43	1.43	194	62	0.038	0.1	14	
Lick Creek	OK410400-01-0130G	4/9/2012	7.52	78.1	114	I	X	65	17.1	238	7.3	20.4	23.6		0.29	0.05	1.37	0.34	1.71	221	90	0.079	0.17	66	
Lick Creek	OK410400-01-0130G	5/14/2012			72.4	I	X	57	21.8	304	7.4	23.6	29.7		0.26	< 0.02	1.2	0.28	1.48	223	104	0.054	0.12	34	3
Little West Blue Creek	OK410600-02-0100C	6/7/2010	9.03	105	12.5	O		320	22.9	613	7.6	4	6.5	0.02	0.27	< 0.02	< 0.11	0.314	0.4	314	326	0.024	0.04	< 10	19.371
Little West Blue Creek	OK410600-02-0100C	7/12/2010	8.59	99.1	5.52	I	X	324	22.8	610	7.1	4.2	5.2	0.03	0.32	< 0.02	0.14	0.37	0.48	303	336	0.025	0.04	< 10	17.83
Little West Blue Creek	OK410600-02-0100C	8/16/2010	10.23	120	5.9	O		306	23.8	596	7.5	3.1	4.3	0.02	0.39	< 0.02	< 0.11	0.426	0.52	297	355	0.015	0.02	< 10	
Little West Blue Creek	OK410600-02-0100C	9/20/2010	10.19	117	1.68	O		334	22.1		7.5	2.3	4.2	0.02	0.3	< 0.02	0.17	0.339	0.49	325	405	0.005	0.02	< 10	5.784
Little West Blue Creek	OK410600-02-0100C	10/25/2010			2.87	O		307		541	7.6	3.6	4.7	< 0.02	0.33	< 0.02	< 0.11	0.365	0.46	291	300	0.007	0.02	< 10	6.712
Little West Blue Creek	OK410600-02-0100C	12/13/2010			1.4	O		321		581	7.9	2.7	4.4	< 0.02	0.34	< 0.02	0.14	0.375	0.5	324	400	< 0.005	0.01	< 10	2.604
Lukfata Creek	OK410210-07-0010G	6/8/2010	5.24	65.5	6.42	O		128	27.2	187	7.2	6.2	5.4	0.08	0.14	< 0.02	0.42	0.244	0.58	101	55	0.044	0.06	< 10	2.497
Lukfata Creek	OK410210-07-0010G	7/13/2010	4.57	58.5	15	I	X	98	27.9	190	7.1	5.6	5.8	0.09	0.19	< 0.02	0.59	0.297	0.8	103	75	0.048	0.07	13	14.42
Lukfata Creek	OK410210-07-0010G	8/17/2010	3.16	40.1	4.85	O		66	27.5	160	7.1	7	3.1	0.05	0.03	< 0.02	0.6	0.095	0.65	89		0.058	0.08	< 10	0
Lukfata Creek	OK410210-07-0010G	9/21/2010	2.76	33.2	5.73	O		82	23.7	169	7.2	10.4	1.8	0.08	0.02	< 0.02	0.8	0.119	0.84	86	122	0.033	0.06	< 10	
Lukfata Creek	OK410210-07-0010G	10/26/2010	4.42	46.9	4.49	O		153	18.1	246	7	8.8	5	0.03	0.03	< 0.02	0.73	0.075	0.78	104	156	0.010	0.03	< 10	
Lukfata Creek	OK410210-07-0010G	12/8/2010	9.45	77.6	5.59	O		124	6.8	229	6.7	8.2	11.8	< 0.02	< 0.02	< 0.02	0.47	0.055	0.51	140	158	0.023	0.03	< 10	1.926
Lukfata Creek	OK410210-07-0010G	1/19/2011	10.27	83.7	6.44	O		79	6.5	0.23	7.7	7.6	13.7	0.02	0.02	< 0.02	< 0.11	0.056	0.15	156	139	0.013	0.03	< 10	1.605
Lukfata Creek	OK410210-07-0010G	2/23/2011	10.33	97.6	11.5	I	X	183	12.9	216	7.9	7.4	14.7	< 0.02	< 0.02	< 0.02	0.14	0.055	0.18	99	104	0.013	0.04	< 10	15.016
Lukfata Creek	OK410210-07-0010G	4/5/2011	6.81	69.7	10.4	I	X	98	16.5	243	7.5	7.4	11.5	0.05	< 0.02	< 0.02	0.38	0.093	0.42	138	157	0.026	0.05	< 10	2.671
Lukfata Creek	OK410210-07-0010G	5/24/2011	7.1	81.6	10.7	I	X	47	16.5	155	7.3	3.7	7.9	0.02	0.25	< 0.02	0.35	0.293	0.62	100	62	0.019	0.04	< 10	50.647
Lukfata Creek	OK410210-07-0010G	6/20/2011	5.36	69.7	3.91	O		102	29.1	217	7.5	6.9	5.3	0.31	0.1	0.02	1.39	0.426	1.51	130	98	0.036	0.08	< 10	0.849
Lukfata Creek	OK41																								

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Lukfata Creek	OK410210-07-0010G	10/11/2011	4.51	40.1	7.15	O		161	20.5	384	7	12.3	3.4	< 0.02	< 0.02	< 0.02	0.67	0.055	0.71	214	169	0.009	0.06	< 10	0
Lukfata Creek	OK410210-07-0010G	11/15/2011	5.98	62.9	14.9	I	X	65	17.8	180	7	11.3	21.1	0.03	0.41	< 0.02	0.82	0.461	1.25	121		0.035	0.08	< 10	3.398
Lukfata Creek	OK410210-07-0010G	12/20/2011	10.19	92.1	30	I	X	46	10.8	136	7.3	6.9	10.9	< 0.02	1.9	< 0.02	0.55	1.935	2.47	112	212	0.049	0.11	21	
Lukfata Creek	OK410210-07-0010G	1/24/2012	12.3	105	2.88	O		70	8.2	193	7.6	7	12.7		1.71	< 0.02	0.19	1.73	1.92	95	140	< 0.005	0.01	< 10	13.724
Lukfata Creek	OK410210-07-0010G	3/6/2012	10.11	95.5	4.29	O		87	12.8	197	7.7	7.5	12.4		1.13	< 0.02	0.36	1.15	1.51	117	111	0.005	0.02	< 10	14.686
Lukfata Creek	OK410210-07-0010G	4/3/2012	8.29	90.6	11			68	20.4	175	7.4	6	10.4		0.73	< 0.02	0.31	0.75	1.06	117	112	0.013	0.03	< 10	13.975
Lukfata Creek	OK410210-07-0010G	5/8/2012	4.8	56.8	9.79	I	X	83	24.4	207	7.3	7.2	8.4		0.25	< 0.02	0.44	0.27	0.71	119	122	0.012	0.04	< 10	5.269
McGee Creek	OK410400-07-0010C	6/14/2010	9.16	107	10.4	O		14.8	23.8	70.3	7.2	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	26.8	< 0.005	< 0.01	< 10	9.649
McGee Creek	OK410400-07-0010C	7/19/2010	11.07	103	20.8	I	X	28	12.3	72.6	6.1	5	9	0.03	0.19	< 0.02	0.68	0.235	0.89	59	19	0.014	0.03	< 10	
McGee Creek	OK410400-07-0010C	8/23/2010	6.47	83.5	3.37	O		33.9	28.3	67	6.8	4.6	9	0.02	0.02	< 0.02	0.32	0.056	0.36	42	21.3	< 0.005	0.01	< 10	15.809
McGee Creek	OK410400-07-0010C	9/27/2010	7.02	82.7	4.45	O		26	23.7	68	6.8	4.1	7.4	0.05	< 0.02	< 0.02	0.63	0.086	0.67	42	23.7	< 0.005	0.01	< 10	21.24
McGee Creek	OK410400-07-0010C	11/1/2010	8.36	89.2	5.01			26.7	18.6	76.5	6.8	4.6	7.1	< 0.02	< 0.02	< 0.02	0.31	0.055	0.35	44	18.9	< 0.005	0.01	< 10	18.588
McGee Creek	OK410400-07-0010C	12/13/2010	10.77	95.4	7.79	O		30	10.3	73.4	6.6	4.5	7.2	0.02	0.03	< 0.02	0.5	0.069	0.55	43	47	< 0.005	0.01	< 10	16.66
McGee Creek	OK410400-07-0010C	1/24/2011	10.81	84.1	4.94	O		31.9	6.8	90.2	7.5	4.8	7.2	< 0.02	0.08	< 0.02	0.31	0.115	0.41	64	26.2	< 0.005	0.01	< 10	47.774
McGee Creek	OK410400-07-0010C	3/7/2011	10.86	94	3.74	O		19.9	9	75.8	7.2	5	8	< 0.02	0.06	0.02	0.32	0.095	0.4	56	22.6	< 0.005	< 0.01	< 10	16.767
McGee Creek	OK410400-07-0010C	4/11/2011	9.91	102	3.09	O		12.5	16.8	79.6	7.2	5	8.4	< 0.02	0.05	< 0.02	0.33	0.085	0.4	53	24.2	< 0.005	0.01	< 10	16.826
McGee Creek	OK410400-07-0010C	5/16/2011	7.99	87.8	5.09	I	X	26.1	19.8	78.1	7.5	4.7	8.1	0.02	0.03	< 0.02	0.34	0.066	0.39	65	23.9	< 0.005	0.01	< 10	15.174
McGee Creek	OK410400-07-0010C	6/27/2011	7.63	91.7	4.86	I		17.3	25.4	73.1	7.1	4.9	10.6	< 0.02	0.03	< 0.02	0.44	0.065	0.49	48	100	< 0.005	0.01	< 10	6.425
McGee Creek	OK410400-07-0010C	8/1/2011	7.32	95.7	3.48	I		20	29.1	76.5	7.6	5.2	10.9	< 0.02	< 0.02	< 0.02	0.34	0.055	0.38	51	21.3	< 0.005	0.01	< 10	13.359
McGee Creek	OK410400-07-0010C	9/6/2011	7.21	85	3.47	O		18.4	23.5	79.5	8	6.1	9.6	< 0.02	< 0.02	< 0.02	0.4	0.055	0.44	48	22.7	< 0.005	< 0.01	< 10	11.556
McGee Creek	OK410400-07-0010C	10/18/2011	9.2	97.6	2.53	I		17.7	18	81.1	7.7	< 0.5	< 0.2	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	21	< 0.005	< 0.01	< 10	89.535
McGee Creek	OK410400-07-0010C	11/28/2011	9.56	89.6	8.55	I		19.9	12.1	77.9	7.4	5.7	10.6	0.07	0.1	< 0.02	0.49	0.191	0.61	54	14.2	< 0.005	0.01	< 10	
McGee Creek	OK410400-07-0010C	1/3/2012	11.99	103	6.8	I		66	8.6	79.5	7.6	5.6	8.3	< 0.02	0.34	< 0.02	0.37	0.375	0.73	53	45	< 0.005	0.03	< 10	14.569
McGee Creek	OK410400-07-0010C	1/30/2012	11.99	104	25.6	I	X	20	9.1	76.5	7.2	5.1	7.8		0.49	< 0.02	0.55	0.51	1.06	86	57	0.011	0.03	< 10	670
McGee Creek	OK410400-07-0010C	3/13/2012			9.57	I	X	5.7	11.6	53.4	7.3	5.3	10.1		0.39	< 0.02	0.41	0.41	0.82	69	35	< 0.005	0.02	< 10	11.606
McGee Creek	OK410400-07-0010C	4/10/2012	11.11	101	16.5	I	X	42	11.4	68.3	6.8	4.8	10.2		0.5	< 0.02	0.32	0.52	0.84	75	59	0.009	0.03	< 10	350
McGee Creek	OK410400-07-0010C	5/14/2012			4.38	I		17	21.6	66.1	7.3	4.6	10		0.24	< 0.02	0.44	0.26	0.7	67	30	< 0.005	0.02	< 10	14000
Mineral Bayou	OK410600-01-0300G	6/8/2010	6.52	82.2	19.4	O	X	153	27.3	411	7.8	16.7	34.1	0.03	0.12	< 0.02	< 0.11	0.171	0.25	271	174	0.011	0.04	< 10	3.347
Mineral Bayou	OK410600-01-0300G	7/13/2010	6.01	76.2	25.9	I	X	123	27.9	315	7.7	12.8	18.3	0.05	0.46	< 0.02	0.47	0.526	0.95	185	116	0.026	0.06	< 10	2.238
Mineral Bayou	OK410600-01-0300G	8/17/2010	6.59	86.2	6.14	O		154	28.7	383	7.9	14.9	26.7	0.03	< 0.02	< 0.02	0.71	0.072	0.75	205	245	0.016	0.04	< 10	
Mineral Bayou	OK410600-01-0300G	9/21/2010	4.88	59	17.7	O		132	24.9		7.7	13.9	24.7	0.02	0.08	< 0.02	0.61	0.123	0.71	241	105	0.016	0.04	< 10	1.707
Mineral Bayou	OK410600-01-0300G	10/26/2010			382	I	X	92		234	7.8	10.7	15.7	< 0.02	0.44	< 0.02	0.94	0.475	1.4	258	120	0.080	0.26	11	2.665
Mineral Bayou	OK410600-01-0300G	12/14/2010			9.32	O		171		452	8.1	19	31.9	< 0.02	< 0.02	< 0.02	0.27	0.055	0.31	264	270	0.010	0.02	< 10	2.046
Mineral Bayou	OK410600-01-0300G	1/19/2011	12	93.7	11.3	O		162	4.9	455	8.1	21.6	33	< 0.02	0.2	< 0.02	< 0.11	0.235	0.33	267	375	0.009	0.01	< 10	2.662
Mineral Bayou	OK410600-01-0300G	2/22/2011	12.64	114	6.38	O		170	11.9	48.8	8.2	27.3	38.7	< 0.02	0.05	< 0.02	0.19	0.085	0.26	296	210	0.007	0.02	< 10	3.554
Mineral Bayou	OK410600-01-0300G	4/5/2011	8.4	81.5	3.54	O		175	14	469	7.9	24.3	30.1	0.02	0.09	0.03	0.47	0.136	0.59	278	160	0.005	0.03	< 10	2.22
Mineral Bayou	OK410600-01-0300G	5/17/2011	6.92	71	41.4	I	X	160	16.5	387		14.3	27.6	0.05	0.3	0.07	0.71	0.424	1.08	264	150	0.030	0.06	< 10	4.364
Mineral Bayou	OK410600-01-0300G	6/21/2011	4.52	55.2	5.85	O		212	25.5	482		21.5	33.1	0.02	0.02	< 0.02	0.45	0.062	0.49	302	280	0.012</td			

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Mineral Bayou	OK410600-01-0300G	11/16/2011	6.4	632	71.1	I	X	140	14.9	258	7.5	10	23.6	< 0.02	< 0.02	< 0.02	0.64	0.055	0.68	204	206	0.029	0.12	< 10	0.66
Mineral Bayou	OK410600-01-0300G	12/20/2011	9.69	84.6	61	I	X	160	9.1	293	7.8	14.1	31.1	< 0.02	0.77	0.04	0.88	0.825	1.69	148	146	0.036	0.14	15	
Mineral Bayou	OK410600-01-0300G	1/24/2012	11.13	92.1	11.3	I		191	7.1	371	8.4	17	38.3	< 0.02	< 0.02	0.48	0.04	0.52	224	395	0.009	0.02	< 10	2.281	
Mineral Bayou	OK410600-01-0300G	3/6/2012	9.13	87.6	3.15	I		166	13.5	471	8.1	20.8	50.1	< 0.02	< 0.02	0.37	0.04	0.41	261	234	< 0.005	0.02	< 10	3.461	
Mineral Bayou	OK410600-01-0300G	4/3/2012	4.83	53.8	27.3	I	X	144	20.5	408	7.8	14.7	35.5		0.18	< 0.02	0.5	0.2	0.7	252	236	0.017	0.05	13	7.545
Mineral Bayou	OK410600-01-0300G	5/8/2012	6.2	71.5	4.89	I		257	22.8	501	7.8	22.7	42.2	< 0.02	< 0.02	0.31	0.04	0.35	252	224	< 0.005	0.02	< 10	3.879	
North Boggy Creek	OK410400-08-0010M	6/8/2010	5.43	69.3	43.1	I	X	30	28	122	6.5	5.9	14.2	0.05	0.1	< 0.02	< 0.11	0.174	0.23	113	42	0.022	0.07	< 10	7.422
North Boggy Creek	OK410400-08-0010M	7/13/2010	7.22	90	46	I	X	23	27.5	115	6.8	5.2	13.5	0.03	0.16	< 0.02	0.41	0.209	0.59	116	27	0.024	0.06	< 10	
North Boggy Creek	OK410400-08-0010M	8/17/2010	4.31	54.8	6.25	O		67	27.5	265	7.1	10.5	52.1	0.02	< 0.02	< 0.02	0.59	0.064	0.63	157	85	0.012	0.03	< 10	
North Boggy Creek	OK410400-08-0010M	9/21/2010	5.83	68.7	2.22	O		98	23.6		7.5	9.6	393.6	0.03	< 0.02	< 0.02	0.74	0.07	0.78	688	480	0.011	0.03	< 10	< 0.1
North Boggy Creek	OK410400-08-0010M	10/26/2010			2.6	O		120		1099	7.5	14.1	734.9	< 0.02	< 0.02	< 0.02	0.52	0.055	0.56	1187	885	0.039	0.05	< 10	< 0.1
North Boggy Creek	OK410400-08-0010M	12/14/2010			2	O		140		1580	7.8	19.7	810.2	< 0.02	< 0.02	< 0.02	0.3	0.055	0.34	1353	975	0.023	0.03	< 10	0.435
North Boggy Creek	OK410400-08-0010M	1/19/2011	12.67	97.7	3.25	O		139	4.4	1735	7.8	23	861.5	< 0.02	< 0.02	< 0.02	0.26	0.055	0.3	1382	950	0.024	0.04	< 10	0.142
North Boggy Creek	OK410400-08-0010M	2/22/2011	12.12	117	2.11	O		143	13.6	1235	7.8	32.4	719.3	< 0.02	< 0.02	< 0.02	0.43	0.055	0.47	1141	855	0.028	0.05	< 10	0.64
North Boggy Creek	OK410400-08-0010M	4/5/2011	8.62	88.4	2.61	O		142	16.5	1852	7.6	28.3	955.9	0.02	< 0.02	< 0.02	0.42	0.064	0.46	1652	1050	0.021	0.02	< 10	< 0.1
North Boggy Creek	OK410400-08-0010M	5/17/2011	8.19	87.8	8.45	O		145	18.6	982		17.1	359.1	0.05	0.09	< 0.02	0.56	0.159	0.67	689	495	0.069	0.08	< 10	0.18
North Boggy Creek	OK410400-08-0010M	6/21/2011	5.15	64.3		O		187	26.6	177		12.8	51.9	0.05	0.04	< 0.02	0.82	0.108	0.88	244	255	0.073	0.1	< 10	
North Boggy Creek	OK410400-08-0010M	7/27/2011	2.57	32.8	15.3	O		275	28	518	7.1	15	44.6	0.09	0.02	< 0.02	1.01	0.134	1.05	320	330	0.091	0.16	< 10	0
North Boggy Creek	OK410400-08-0010M	8/30/2011	1.89	22.6	10.2	O		276	24.2	559	7.1	< 0.5	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	< 10	260	< 0.005	< 0.01	< 10	0	
North Boggy Creek	OK410400-08-0010M	10/12/2011	7.05	78	4	O		197	20.3	449	7.9	19.9	46.9	0.03	< 0.02	< 0.02	1.19	0.067	1.23	337	255	0.053	0.11	< 10	0
North Boggy Creek	OK410400-08-0010M	11/16/2011	6.67	64.2	1.25	I		87	13.6	1824	7.3	21	922.2	< 0.02	< 0.02	< 0.02	0.49	0.055	0.53	1520	1084	0.052	0.07	< 10	
North Boggy Creek	OK410400-08-0010M	12/20/2011	10.23	89.5	7.35	O	X	134	9.4	1516	7.9	22.1	798.1	< 0.02	0.39	< 0.02	0.45	0.425	0.86	1203	904	0.036	0.06	< 10	2.76
North Boggy Creek	OK410400-08-0010M	1/24/2012	13.85	121	5.15	I		132	9.5	1611	7.9	23.5	866.7		< 0.02	< 0.02	0.65	0.04	0.69	1298	1525	0.042	0.04	< 10	0.211
North Boggy Creek	OK410400-08-0010M	3/6/2012	8.04	76.4	3.22	I		174	13	1828	7.6	21	1080		< 0.02	< 0.02	0.58	0.04	0.62	1572	1073	0.032	0.05	< 10	2
North Boggy Creek	OK410400-08-0010M	4/3/2012	5.5	61.7	4.05	I	X	157	20.8	1436	7.6	14.9	753.4		< 0.02	< 0.02	0.46	0.04	0.5	1143	940	0.063	0.08	< 10	2
North Boggy Creek	OK410400-08-0010M	5/8/2012	4.26	48.8	5.71	O		181	22.1	8170	7.3	19.3	1066		< 0.02	< 0.02	0.7	0.04	0.74	1676	1318	0.054	0.09	< 10	2
Norwood Creek	OK410100-01-0050H	6/8/2010	5.04	63	24.3	I	X	89	26.9	391	6.9	55.2	12.2	0.06	0.14	< 0.02	1.04	0.221	1.2	220	105	0.085	0.11	< 10	1.866
Norwood Creek	OK410100-01-0050H	7/13/2010	4.66	61	47.2	I	X	74	28.9	169	7	13.9	6.4	0.09	0.12	< 0.02	1.35	0.232	1.49	115	101	0.161	0.18	12	
Norwood Creek	OK410100-01-0050H	8/17/2010	4.12	52.7	17.8	O		126	27.4	524	7.4	80	15.7	0.03	0.05	< 0.02	1.05	0.099	1.12	280	148	0.061	0.09	11	1.802
Norwood Creek	OK410100-01-0050H	9/21/2010	4.04	46.3	17.4	O		109	23.5	190	7	20.8	3.3	0.06	0.27	< 0.02	1.13	0.345	1.42	98	64	0.039	0.05	< 10	9.549
Norwood Creek	OK410100-01-0050H	10/26/2010	2.56	27.5	62.7	I	X	94	18.9	480	6.7	69.8	44.1	< 0.02	0.36	< 0.02	0.95	0.395	1.33	229	211	0.034	0.09	< 10	0.772
Norwood Creek	OK410100-01-0050H	12/8/2010	9.87	82.2	5.88	O		65	7.4	199	6.5	42.9	13.5	< 0.02	0.09	< 0.02	0.71	0.125	0.82	174	89	0.022	0.03	< 10	3.16
Norwood Creek	OK410100-01-0050H	1/19/2011	9.8	80.5	31.3	I	X	149	6.8	343	7.3	51.6	27.3	0.03	0.02	< 0.02	0.85	0.066	0.89	277	210	0.052	0.1	< 10	4.328
Norwood Creek	OK410100-01-0050H	2/23/2011	8.75	82.4	17.2	I	X	79	12.6	394	7.2	63.2	26.5	< 0.02	0.06	< 0.02	0.67	0.095	0.75	214	116	0.041	0.08	< 10	5.538
Norwood Creek	OK410100-01-0050H	4/5/2011	6.51	63.4	12	I	X	117	14.2	661	7.5	109	37.5	0.28	0.08	< 0.02	0.82	0.38	0.92	369	168	0.061	0.09	< 10	4.001
Norwood Creek	OK410100-01-0050H	5/24/2011	5.14	59.2	30.8	I	X	44	22.2	137	7	12	8.3	0.08	0.07	< 0.02	1.08	0.169	1.17	140	65	0.164	0.21	20	
Norwood Creek	OK410100-01-0050H	6/20/2011	6.09	80.6	29.5	O		100	30	266	7.4	32.4	5.2	0.04	0.11	< 0.02	1.26	0.168	1.39	198	82	0.143	0.17	< 10	3.033
Norwood Creek	OK410100-01-0050H	8/2/2011	2	25.9	7.78	O		132	28	366	7.2	40.2	7	0.04	0.12	< 0.02	0.62	0.182	0.76	196	138	0.072	0.1	< 10	0
Norwood Creek	OK410100-01-0050H	8/30/2011	2.21</																						

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)	
Norwood Creek	OK410100-01-0050H	12/20/2011	8.62	76.8	46.8	I	X	37	10.2	108	6.5	12.6	15.7	< 0.02	0.35	< 0.02	1.05	0.385	1.42	136	87	0.054	0.08	< 10		
Norwood Creek	OK410100-01-0050H	1/24/2012	9.38	78	10.2	O		50	7.4	241	6.9	28.3	32.2		0.21	< 0.02	0.78	0.23	1.01	167	125	0.024	0.04	< 10	9.671	
Norwood Creek	OK410100-01-0050H	3/6/2012	9.26	87.4	14	O	X	60	12.7	232	7.1	31.1	24.4		0.03	< 0.02	1.11	0.05	1.16	167	110	0.044	0.08	< 10	7.648	
Norwood Creek	OK410100-01-0050H	4/3/2012	5.01	55.6	41.7	I	X	56	21.2	202	6.9	22.1	14.5		0.2	0.06	1.5	0.26	1.76	189	106	0.215	0.28	14	0	
Norwood Creek	OK410100-01-0050H	5/8/2012	2.24	26.7	9.79	I	X	78	23.5	366	6.9	54.6	20.3		0.36	< 0.02	1.62	0.38	2	285	106	0.104	0.21	< 10	5.898	
One Creek	OK410300-03-0060F	6/8/2010	5.18	64.8	7.69	O		30.5	26.8	77.1	6.5	6.5	5.1	0.04	0.04	< 0.02	0.46	0.1	0.52	56	16.4	0.023	0.03	< 10	0.795	
One Creek	OK410300-03-0060F	7/13/2010	3.94	50.1	8.18	I	X	27	27.6	88.4	6.6	6.7	4.9	0.06	0.04	< 0.02	0.69	0.116	0.75	70	33.1	0.025	0.05	< 10	0.516	
One Creek	OK410300-03-0060F	8/17/2010	4.62	59.4	9.58	O		12.2	28.4	52.9	6.1	3.9	3.6	0.04	0.02	< 0.02	1.03	0.083	1.07	53	16.8	0.017	0.05	< 10	0.528	
One Creek	OK410300-03-0060F	9/21/2010	6.03	73.5	7.91	O		17.3	25.4	65.3	6.5	5.7	4.8	0.02	0.03	< 0.02	0.77	0.074	0.82	48	16.8	0.014	0.05	< 10		
One Creek	OK410300-03-0060F	10/26/2010	4.6	49	6.31	O		19.5	18.4	79	6.6	7.1	5.5	< 0.02	< 0.02	< 0.02	0.81	0.055	0.85	51	29.1	< 0.005	0.02	< 10	0.655	
One Creek	OK410300-03-0060F	12/8/2010	9.83	77.8	2.1	O		21.5	5.4	83.5	6.8	8.1	4.8	< 0.02	< 0.02	< 0.02	0.24	0.055	0.28	48	34	0.011	0.01	< 10	1.118	
One Creek	OK410300-03-0060F	1/19/2011	13.06	99.9	15.8	O		14	4.1	74.3	7.2	8.1	7.2	< 0.02	< 0.02	< 0.02	< 0.02	< 0.11	0.055	0.15	122	32.7	0.006	0.03	< 10	8.086
One Creek	OK410300-03-0060F	2/23/2011	9.85	93.3	12.3	O		19.2	12.9	74.9	7.1	8.5	7.8	< 0.02	< 0.02	< 0.02	< 0.02	0.28	0.055	0.32	49	23.5	< 0.005	0.03	< 10	8.31
One Creek	OK410300-03-0060F	4/5/2011	7.3	70.6	4.03	O		19.4	13.9	86	7.1	9.8	7.3	< 0.02	< 0.02	< 0.02	0.37	0.055	0.41	66	23.2	0.005	0.02	< 10	2.615	
One Creek	OK410300-03-0060F	5/17/2011	8.14	86.1	11.3	O		20.6	18.1	61	6.7	5.7	5.8	< 0.02	< 0.02	< 0.02	0.39	0.055	0.43	80	23.5	0.014	0.03	< 10	7.925	
One Creek	OK410300-03-0060F	6/21/2011	2.99	36.3	7.31	O		28	25.5	86.5	6.6	5.4	4.6	0.04	0.04	< 0.02	0.56	0.098	0.62	59	21.6	0.024	0.05	< 10		
One Creek	OK410300-03-0060F	7/27/2011	2.69	33.9	3.54	O		32	27.1	137	6.7	8.2	2.4	0.09	0.05	< 0.02	0.77	0.157	0.84	98	38	0.036	0.07	< 10	0	
One Creek	OK410300-03-0060F	8/30/2011	2.9	35.4	4.66	O		85	25.6	202	7	12.3	1.7	0.07	0.05	< 0.02	1	0.142	1.07	138	62.5	0.028	0.07	< 1	0	
One Creek	OK410300-03-0060F	10/18/2011	5.92	55.3	16.7	I	X	46	13.8	226	7.1	16.3	24.4	0.06	0.74	0.09	1.61	0.889	2.44	154	42	0.025	0.11	< 10	0	
One Creek	OK410300-03-0060F	11/15/2011	1.84	18.8	182	I	X	38	16.9	137	6.3	4.9	5.9	< 0.02	0.11	< 0.02	2.12	0.145	2.25	252	40	0.482	0.77	34	0	
One Creek	OK410300-03-0060F	12/20/2011	9.99	89.3	11.6	I	X	8.2	10.3	51.6	6.6	5	8.6	0.02	0.57	< 0.02	0.26	0.606	0.85	34	12	0.007	0.05	< 10		
One Creek	OK410300-03-0060F	1/24/2012	10.34	86.1	6.5	O		4.2	7.3	64.9	6.9	6.2	7.7		0.2	< 0.02	0.21	0.22	0.43	57	15	< 0.005	0.01	< 10	2.636	
One Creek	OK410300-03-0060F	3/6/2012	9.58	90.5	5.24	O		10.3	12.8	68.2	6.8	5.7	7.3		0.05	< 0.02	0.32	0.07	0.39	79	17.4	< 0.005	0.02	< 10	3.29	
One Creek	OK410300-03-0060F	4/3/2012	6.1	67.3	6.5			8.5	22.3	65.8	6.7	4.6	6.7		0.08	< 0.02	0.28	0.1	0.38	55	9.4	0.007	0.03	< 10	4.614	
One Creek	OK410300-03-0060F	5/8/2012	5.89	67.9	174	I	X	24	22.3	88.2	6.7	6.9	5.6		0.22	< 0.02	1.3	0.24	1.54	165	27	0.319	0.44	50	6.732	
Rock Creek (McCurtain)	OK410200-03-0010G	6/8/2010	4.69	57.6	14.5	I	X	149	26.1	46.5	6.1	2.6	2.4	0.05	0.06	< 0.02	0.41	0.126	0.49	35	116	0.005	0.03	< 10	3.373	
Rock Creek (McCurtain)	OK410200-03-0010G	7/13/2010	4.51	58	2.47	O		28.8	28.9	49.3	6.4	< 0.5	< 0.2	0.03	< 0.02	< 0.02	< 0.11	0.073	0.15	< 10	15.5	< 0.005	< 0.01	< 10	5.25	
Rock Creek (McCurtain)	OK410200-03-0010G	8/17/2010	65.8	4.89	O		31.5	28.9	86.5	6.4	5	1.2	0.05	< 0.02	< 0.02	< 0.02	0.84	0.093	0.88	52	28.8	0.007	0.08	< 10	0	
Rock Creek (McCurtain)	OK410200-03-0010G	9/21/2010	3.75	44.8	2.14	O		21.8	24.3	52.6	6.4	2.9	2.5	0.04	0.02	< 0.02	0.62	0.084	0.66	24	12.5	< 0.005	0.02	< 10	0.735	
Rock Creek (McCurtain)	OK410200-03-0010G	10/26/2010	4.48	48.9	17.7	I	X	23.3	19.1	64.4	6.2	4.9	2.5	< 0.02	0.03	< 0.02	0.63	0.065	0.68	21	22.3	< 0.005	0.03	< 10	0.468	
Rock Creek (McCurtain)	OK410200-03-0010G	12/8/2010	11.43	91.9	9.04	I	X	16.5	6	42.6	6.1	4.3	4.4	< 0.02	0.06	< 0.02	< 0.11	0.095	0.19	58	18.6	0.006	0.01	< 10	15.208	
Rock Creek (McCurtain)	OK410200-03-0010G	1/19/2011	11.18	89.8	12.8	I	X	17.8	6	28.6	6.8	3.3	4.7	0.04	0.09	< 0.02	< 0.11	0.153	0.22	78	18.5	0.006	0.02	< 10	14.02	
Rock Creek (McCurtain)	OK410200-03-0010G	2/23/2011	10.04	92	7.42	I	X	13.1	11.6	46	6.7	3.2	4.6	0.02	0.11	< 0.02	< 0.11	0.153	0.24	30	13.2	< 0.005	0.02	< 10	13.11	
Rock Creek (McCurtain)	OK410200-03-0010G	4/5/2011	7.37	72.3	2.58	O		15.3	14.5	55.4	6.6	3.5	3.4	< 0.02	0.07	< 0.02	0.32	0.105	0.41	49	16.2	< 0.005	0.02	< 10	10.382	
Rock Creek (McCurtain)	OK410200-03-0010G	5/24/2011	6.49	71.5	3	I	X	8.7	19.4	38.5	5.5	1.9	3.2	< 0.02	0.17	< 0.02	0.25	0.205	25.2	50	7.4	< 0.005	0.02	< 10	103.6	
Rock Creek (McCurtain)	OK410200-03-0010G	6/20/2011	5.54	75.7	5.87	O		21.5	32.2	58.7	6.5	3.8	1.5	0.02	< 0.02	< 0.02	0.45	0.056	0.49	62	15.1	< 0.005	0.03	< 10	0.069	
Rock Creek (McCurtain)	OK410200-03-0010G	8/2/2011	2.84	37.5	3.26	O		27.5	29.6	93.1	6.4	11.7	0.4	0.06	0.06	< 0.02	0.87	0.143	0.95	60	20.8	< 0.005	0.03	< 10	0	
Rock Creek (McCurtain)	OK410200-03-0010G	8/30/2011	2.23	27.4	4.8	O		32.1	26.2	113	7.1	11.5	4	0.09	0.09	< 0.02	1.15	0.196	1.26	109	26.6	0.005</				

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Rock Creek (McCurtain)	OK410200-03-0010G	1/24/2012	12.27	99	3.01	O		6.1	6.1	45.6	6	3.3	4.1		0.78	< 0.02	0.18	0.8	0.98	37	10.9	< 0.005	0.01	< 10	41.664
Rock Creek (McCurtain)	OK410200-03-0010G	3/6/2012	9.83	89.4	2.64	O		16	11.1	45.7	6.7	3.6	4.1		0.58	< 0.02	0.24	0.6	0.84	44	15.4	< 0.005	0.01	< 10	24.011
Rock Creek (McCurtain)	OK410200-03-0010G	4/3/2012	8.44	91	5.11			13.9	19.6	43.7	6.6	2.7	3.2		0.53	< 0.02	0.32	0.55	0.87	55	12.4	< 0.005	0.01	< 10	9.746
Rock Creek (McCurtain)	OK410200-03-0010G	5/8/2012	5.01	59.7	5.77	I	X	15.8	23.5	48.1	6.5	2.8	3		0.2	< 0.02	0.12	0.22	0.34	41	13.8	< 0.005	0.02	< 10	14.041
Rock Creek (Pushmataha)	OK410300-02-0190G	6/7/2010	5.86	76.6	9.18	O		13.5	29.6	86.8	6.5	9.6	10.1	0.03	< 0.02	< 0.02	< 0.11	0.072	0.15	64	21.6	0.014	0.06	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	7/13/2010	1	12.9	3.56	O		33.6	28.4	102	6.3	9.8	4.2	0.06	< 0.02	< 0.02	1.04	0.104	1.08	53	28.1	0.011	0.06	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	8/17/2010	0.56	0.1	2.92	O		24	28.6	89.7	6.5	12	2.7	0.05	< 0.02	< 0.02	0.82	0.092	0.86	37	23	0.010	0.06	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	9/21/2010	4.61	56.7	7.59	O		14.6	25.8	61.3	6	4.9	4.4	0.02	< 0.02	< 0.02	0.83	0.06	0.87	21	16.6	0.005	0.03	< 10	
Rock Creek (Pushmataha)	OK410300-02-0190G	10/26/2010	2.18	23.2	2.54	O		22.4	18.4	84.6	6.3	7.4	5.6	< 0.02	< 0.02	< 0.02	0.82	0.055	0.86	44	24.2	< 0.005	0.02	< 10	
Rock Creek (Pushmataha)	OK410300-02-0190G	12/8/2010	7.14	57.7	2.21	O		25.7	6.2	95.1	6.7	7.5	5.4	< 0.02	< 0.02	< 0.02	0.33	0.055	0.37	65	12.2	0.009	0.02	< 10	0.2
Rock Creek (Pushmataha)	OK410300-02-0190G	1/19/2011	11.22	87.6	13.7	O		19	4.9	94.4	7.1	11.5	8.8	< 0.02	< 0.02	< 0.02	0.51	0.055	0.55	75	30.2	0.005	0.03	< 10	4.098
Rock Creek (Pushmataha)	OK410300-02-0190G	2/23/2011	8.65	81.2	13.5	O		23	12.5	98.8	6.9	12.8	11	< 0.02	< 0.02	< 0.02	0.35	0.055	0.39	69	24.2	< 0.005	0.04	< 10	2.876
Rock Creek (Pushmataha)	OK410300-02-0190G	4/5/2011	5.32	54.4	6.41	O		25.2	15.8	105	7.1	11.2	8	< 0.02	< 0.02	< 0.02	0.5	0.055	0.54	74	34.3	< 0.005	0.03	< 10	1.872
Rock Creek (Pushmataha)	OK410300-02-0190G	5/17/2011	5.62	59.1	15.5	O		21.7	17.7	33.3	6.6	6	6.4	0.03	0.05	< 0.02	0.56	0.098	0.63	74	20.8	0.014	0.05	< 10	5.511
Rock Creek (Pushmataha)	OK410300-02-0190G	6/20/2011	3.85	50.8	5.68	O		26.1	29.7	84.2	6.6	5.4	4.8	0.02	0.02	< 0.02	0.51	0.057	0.55	52	27	0.009	0.04	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	7/26/2011	3.81	51	3.26	I	X	45	30.9	122	6.8	6.5	3.2	< 0.02	< 0.02	< 0.02	0.88	0.055	0.92	83	35.3	0.009	0.04	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	8/30/2011	2.5	31.2	10.4	O		45	26.4	119	6.5	9.1	3.5	0.05	< 0.02	< 0.02	1.26	0.089	1.3	125	34.5	0.009	0.04	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	10/17/2011	6	59.6	1.83	O		72	15.1	166	7.3	12.4	4	0.02	< 0.02	< 0.02	1.32	0.056	1.36	110	47	0.009	0.06	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	11/14/2011	4.12	46.5	19.7	O		23	20	127	6.6	7.3	8.1	0.02	1.34	< 0.02	1.43	1.376	2.79	102	32	0.094	0.16	< 10	0
Rock Creek (Pushmataha)	OK410300-02-0190G	12/19/2011	10.52	93	7.96	I		3.5	9.9	70.2	7.1	5.6	8.6	< 0.02	2.1	< 0.02	0.31	2.135	2.43	42	18.2	0.006	0.01	< 10	
Rock Creek (Pushmataha)	OK410300-02-0190G	1/23/2012	12.78	113	4.91	O		11.3	10.1	74.1	7.1	6.4	9.5	1.03	< 0.02	0.38	1.05	1.43	60	17.4	< 0.005	0.01	< 10	4.354	
Rock Creek (Pushmataha)	OK410300-02-0190G	3/5/2012	11.26	113	4.99	O		13.4	15.7	74.2	7.1	7.4	10.1	0.36	< 0.02	0.46	0.38	0.84	84	16.4	< 0.005	0.02	< 10	1.835	
Rock Creek (Pushmataha)	OK410300-02-0190G	4/2/2012	10.12	118	5.51			2.4	23.2	63.7	7.1	4.7	7.1	0.11	< 0.02	0.36	0.13	0.49	68	15.4	0.006	0.03	< 10	3.154	
Rock Creek (Pushmataha)	OK410300-02-0190G	5/7/2012	7.79	97.4	2.55	O		26.2	26.2	82	6.7	6.6	6	0.03	< 0.02	0.39	0.05	0.44	61	20.5	0.010	0.03	< 10	0.47	
Sand Creek	OK410700-00-0260G	6/8/2010	6.98	87.1	4.61	O		114	26.7	420	7.6	43	18.7	0.04	0.67	< 0.02	< 0.11	0.729	0.8	260	135	0.008	0.03	< 10	4.064
Sand Creek	OK410700-00-0260G	7/13/2010	8.15	103	16.5	O		117	27.4	398	7.7	41.5	15.4	0.08	1.14	< 0.02	0.28	1.238	1.44	226	110	0.032	0.05	< 10	3.895
Sand Creek	OK410700-00-0260G	8/17/2010	7.62	95.6	9.56	O		131	29.3	398	8.1	46.1	14.2	0.04	0.22	< 0.02	0.5	0.283	0.74	235	115	0.012	0.04	< 10	
Sand Creek	OK410700-00-0260G	9/21/2010	4.66	56.1	10.2	O		110	24.8	402	7.9	38.8	16.8	0.05	0.84	< 0.02	0.47	0.906	1.33	246	150	0.014	0.04	< 10	1.078
Sand Creek	OK410700-00-0260G	10/26/2010			15.1	I	X	113		333	7.7	28.2	15.2	< 0.02	0.77	< 0.02	0.65	0.805	1.44	176	125	0.024	0.06	< 10	26.477
Sand Creek	OK410700-00-0260G	12/14/2010			3.63	O		109		405	8.1	43.7	16.6	< 0.02	1.7	< 0.02	0.31	1.735	2.03	249	155	< 0.005	< 0.01	< 10	2.243
Sand Creek	OK410700-00-0260G	1/19/2011	12.16	98.4	6.08	O		105	6.3	360	8.2	40.9	17	< 0.02	1.59	< 0.02	< 0.11	1.625	1.72	238	255	0.010	0.02	< 10	2.589
Sand Creek	OK410700-00-0260G	2/22/2011	13.14	115	4.6	O		112	9.5	416	8.3	41.4	18.6	< 0.02	0.99	< 0.02	0.22	1.025	1.23	252	115	< 0.005	0.01	< 10	2.076
Sand Creek	OK410700-00-0260G	4/5/2011	10.59	97.7	3.45	O		119	11.7	417	8	46.5	17	0.2	0.79	< 0.02	0.31	1.01	1.12	244	525	0.007	0.01	< 10	2.438
Sand Creek	OK410700-00-0260G	5/17/2011	8.53	84.8	9.37	I	X	117	15.1	364		34.5	19.1	0.02	0.82	< 0.02	0.53	0.862	1.37	237	115	0.014	0.05	< 10	2.785
Sand Creek	OK410700-00-0260G	6/21/2011	5.1	62.8	5.5	I		122	24.1	402		43.4	16.5	0.03	0.51	< 0.02	0.37	0.56	0.9	262	361	0.015	0.02	10	0.122
Sand Creek	OK410700-00-0260G	7/27/2011	4.6	57.4	3.57	O		111	27.3	347	7.5	38	12.7	0.03	0.02	< 0.02	0.33	0.067	0.37	216	150	0.007	0.02	< 10	0.663
Sand Creek	OK410700-00-0260G	8/30/2011	2.48	30.2	9.68	O		91	25.8	220	7.6	13	6.5	0.27	< 0.02	0.02	0.83	0.31	0.87	150	70	0.007	0.05	< 10	0.296
Sand Creek	OK410700-00-0260G	10/11/2011	9.65	108	25.9	I	X	60	20.8	413	7.8	51.7	28.3	0.03	0.66	< 0.02	0.56	0.712	1.24	241	118	0.019	0.03	< 10	1.52

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)	
Sand Creek	OK410700-00-0260G	3/6/2012	9.25	86	4.98	I		117	12	467	8	49.7	29.7		1.1	< 0.02	0.34	1.12	1.46	267	160	0.005	0.02	< 10	2.511	
Sand Creek	OK410700-00-0260G	4/3/2012	7.51	82.4	5.69	I	X	133	19.9	457	7.6	41.9	28.8		0.52	< 0.02	0.38	0.54	0.92	271	158	0.007	0.02	< 10		
Sand Creek	OK410700-00-0260G	5/8/2012	6.65	75.3	5.02	I		142	21.5	436	7.8	46.4	22.1		0.74	< 0.02	0.31	0.76	1.07	240	182	0.005	0.02	< 10	1.917	
Sandy Creek	OK410600-02-0020G	6/7/2010	7.12	94.4	6.47	O		102	29.7	259	7.6	11.9	24.8	0.03	0.08	< 0.02	< 0.11	0.129	0.21	163	112	0.017	0.02	< 10	2.879	
Sandy Creek	OK410600-02-0020G	7/12/2010	6.71	91.1	19.5	I	X	77	31.3	165	7.6	0.5	10.2	0.04	0.12	< 0.02	0.94	0.18	1.08	113	63	0.028	0.05	< 10	5.008	
Sandy Creek	OK410600-02-0020G	8/16/2010	5.04	65.9	33.9	I	X	109	29.4	328	7.5	11.8	32.2	0.02	0.16	< 0.02	0.93	0.199	1.11	217	100	0.046	0.08	< 10	0	
Sandy Creek	OK410600-02-0020G	9/20/2010	7.15	92	2.55	O		101	28.3		7.6	10.3	25.5	0.03	< 0.02	< 0.02	< 0.02	0.46	0.065	0.5	177	110	0.019	0.03	< 10	< 0.1
Sandy Creek	OK410600-02-0020G	10/25/2010			1.66	O		111		365	7.7	25.6	29.5	< 0.02	< 0.02	< 0.02	< 0.02	0.11	0.055	0.15	196	125	0.013	0.02	< 10	0.353
Sandy Creek	OK410600-02-0020G	12/13/2010			1.91	O		262		465	8	24.5	47.5	< 0.02	< 0.02	< 0.02	< 0.02	0.21	0.055	0.25	300	240	< 0.005	0.01	< 10	< 0.1
Sandy Creek	OK410600-02-0020G	1/18/2011	12.33	106	1.14	O		115	9.3	341	7.3	20.5	30	0.08	< 0.02	< 0.02	< 0.02	0.74	0.124	0.78	179	170	0.011	0.02	< 10	0.476
Sandy Creek	OK410600-02-0020G	2/21/2011	7.99	83	1.49	O		105	16.5	286	8	15.6	26.6	< 0.02	< 0.02	< 0.02	< 0.02	0.13	0.055	0.17	203	90	0.008	0.01	< 10	1.747
Sandy Creek	OK410600-02-0020G	4/4/2011	8.22	90.2	6.79	O		125	19.8	341	7.9	24.7	43.6	0.03	< 0.02	< 0.02	< 0.02	0.51	0.072	0.55	238	150	0.013	0.04	< 10	< 0.1
Sandy Creek	OK410600-02-0020G	5/16/2011	8.48	96.5	2.6	O		120	21.8	260	7.8	17	21.4	< 0.02	< 0.02	< 0.02	< 0.02	0.34	0.055	0.38	170	80	0.007	0.03	< 10	0.505
Sandy Creek	OK410600-02-0020G	6/20/2011	4.3	53	9.53	O		168	25.1	463		183	18.4	< 0.02	< 0.02	< 0.02	< 0.02	0.95	0.055	0.99	304	250	0.018	0.08	< 10	0
Sandy Creek	OK410600-02-0020G	7/26/2011	3.81	47.8	65.2	O		269	27.2	562	7.1	24.6	21.1	1.78	0.03	< 0.02	5.88	1.828	5.93	328	600	0.086	0.5	75	0	
Sandy Creek	OK410600-02-0020G	10/11/2011	0.53	5.5	35.4	I	X	56	17.2	220	6.8	5.7	18.4	0.02	< 0.02	< 0.02	1.82	0.059	1.86	165	91	0.177	0.3	< 10	0	
Sandy Creek	OK410600-02-0020G	11/15/2011	6.59	68.4	1.87	I	X	94	17.3	258	7.6	14.8	42.3	< 0.02	0.06	< 0.02	0.48	0.095	0.56	176	162	< 0.005	0.01	< 10	0.625	
Sandy Creek	OK410600-02-0020G	12/19/2011	10.52	95.5	5	I	X	123	11.1	200	8	9.1	21.9	< 0.02	3.6	< 0.02	0.64	3.635	4.26	117	158	0.006	0.04	< 10		
Sandy Creek	OK410600-02-0020G	1/23/2012	11.97	112	1.46	I		106	12.4	229	8.3	11.9	27.2		1.37	< 0.02	0.51	1.39	1.9	136	160	< 0.005	< 0.01	< 10	1.214	
Sandy Creek	OK410600-02-0020G	3/5/2012	10.15	107	1.09	I		90	18.3	252	8.6	14.5	31.4		0.07	< 0.02	0.39	0.09	0.48	154	505	< 0.005	0.01	< 10	2.425	
Sandy Creek	OK410600-02-0020G	4/2/2012	8.33	102	1.76	I	X	140	25.8	245	8.2	13.4	27.9		< 0.02	< 0.02	0.34	0.04	0.38	153	104	0.006	0.02	< 10	5.69	
Sandy Creek	OK410600-02-0020G	5/7/2012	7.59	91.3	1.61	I		129	24.6	363	7.9	19.3	41.1		< 0.02	< 0.02	0.27	0.04	0.31	206	270	0.005	0.01	< 10	3	
Sulphur Creek	OK410600-01-0030G	6/15/2010	7.12	80.5	> 1000	I	X	81	22.1	225	6.9	20.4	26.8	0.52	0.38	< 0.02	11.9	0.915	12.3	219	119	0.342	0.85	668		
Sulphur Creek	OK410600-01-0030G	7/20/2010	4.62	57	14.3	O		162	26.6	419	7.1	42.7	18.6	0.03	< 0.02	< 0.02	0.91	0.069	0.95	256	135	0.017	0.05	< 10		
Sulphur Creek	OK410600-01-0030G	8/24/2010	3.35	39.5	30.9	O		239	28.1	692	6.6	98.4	11.8	1.8	< 0.02	< 0.02	6.76	1.84	6.8	430	214	0.059	0.55	153	0	
Sulphur Creek	OK410600-01-0030G	9/28/2010	4.22	43	21	I	X	144	16.2	480	7.1	67	12.3	0.21	< 0.02	< 0.02	2.03	0.247	2.07	275	178	< 0.005	0.04	< 10		
Sulphur Creek	OK410600-01-0030G	11/2/2010	2.06	19.5	21.4	O		166	13.3	509	6.5	69.9	12.1	0.06	0.03	< 0.02	1.08	0.114	1.13	264	227	0.057	0.08	< 10	0	
Sulphur Creek	OK410600-01-0030G	12/14/2010	2.11	21.1	19.2	O		263	1.8	395	6.5	101	14.8	< 0.02	0.1	0.02	0.45	0.135	0.57	448	391	0.007	0.03	< 10	0	
Sulphur Creek	OK410600-01-0030G	1/25/2011	9.29	61.6	9.01	O		163	3.1	672	7	90.5	20.2	0.02	0.17	< 0.02	0.25	0.211	0.44	344	235	0.009	0.02	< 10		
Sulphur Creek	OK410600-01-0030G	3/8/2011	7.99	73.5	5.56	O		226	11.6	603	7.8	46.7	25.3	< 0.02	< 0.02	0.02	0.39	0.055	0.43	347	252	< 0.005	0.02	10	> 0.03	
Sulphur Creek	OK410600-01-0030G	4/12/2011	4.38	42.5	15.7	O		201	14	651	7.6	80.3	12.4	< 0.02	< 0.02	< 0.02	1.92	0.055	1.96	365	244	0.023	0.15	< 10		
Sulphur Creek	OK410600-01-0030G	5/17/2011	6.71	67	42.7	I	X	112	15.4	429	7.4	29.9	16.9	0.04	< 0.02	< 0.02	0.62	0.083	0.66	262	193	0.014	0.04	< 10	0.247	
Sulphur Creek	OK410600-01-0030G	11/28/2011	9.01	78.1	29.5	I	X	98	9.1	439	7.5	31.5	64.4	0.09	1.51	< 0.02	1.32	1.62	2.85	283	171	0.031	0.06	< 10		
Sulphur Creek	OK410600-01-0030G	1/3/2012	13.68	114	8.59	I		157	7.5	428	8.2	31.8	47.4	< 0.02	0.03	< 0.02	0.91	0.065	0.96	297	310	0.006	0.07	< 10	< 0.5	
Sulphur Creek	OK410600-01-0030G	1/30/2012	11.03	699	20.7	I	X	135	10.5	356	7.8	16.8	37.4		2.32	< 0.02	0.74	2.34	3.08	225	178	0.022	0.05	< 10	6.344	
Sulphur Creek	OK410600-01-0030G	3/12/2012			24.3	I	X	129	14.6	387	8.1	23.5	40.5		0.24	< 0.02	0.76	0.26	1.02	276	440	0.008	0.04	14	12.692	
Sulphur Creek	OK410600-01-0030G	4/9/2012	8.78	92.9	56.2	I	X	135	18	215	7.8	8.3	16.4		0.26	< 0.02	1.06	0.28	1.34	207	168	0.032	0.09	27	29.209	
Sulphur Creek	OK410600-01-0030G	5/14/2012			38.1	I	X	163	24.7	370	8.3	20.6	25.1		0.08	< 0.02	0.61	0.1	0.71	263	200	0.017	0.06	13	1.213	
Tenmile Creek	OK410300-03-0																									

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO3)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Tenmile Creek	OK410300-03-0270C	9/27/2010	3.55	39.2	50.3	I	X	30.2	20.5	89	6.8	5	3.2	0.14	0.1	< 0.02	1.05	0.263	1.17	108	29	0.057	0.09	< 10	8.602
Tenmile Creek	OK410300-03-0270C	11/1/2010	3.22	30.6	10.2	O		37.8	13.1	108	6.7	8.2	3.8	0.02	0.07	< 0.02	0.26	0.107	0.92	67	36.9	0.040	0.05	< 10	0.904
Tenmile Creek	OK410300-03-0270C	12/13/2010	10.2	77	3.58	O		41	3.6	139	6.1	15.6	11.4	< 0.02	< 0.02	< 0.02	0.26	0.055	0.3	90	69	< 0.005	0.02	< 10	
Tenmile Creek	OK410300-03-0270C	1/24/2011	11.45	92.1	30.1	I	X	46.1	3.8	141	7.1	11.7	12.3	0.02	0.04	< 0.02	0.48	0.079	0.54	144	43	0.034	0.07	< 10	24.862
Tenmile Creek	OK410300-03-0270C	3/7/2011	8.05	72.3	13.6	I	X	35	10.5	193	7	21.6	20.6	< 0.02	< 0.02	< 0.02	0.48	0.055	0.52	103	53.8	0.020	0.04	< 10	5.536
Tenmile Creek	OK410300-03-0270C	4/11/2011	3.43	36.6	11.3	I	X	12	18.5	192	6.7	19.4	13.2	< 0.02	< 0.02	< 0.02	0.68	0.055	0.72	110	24.1	0.013	0.05	< 10	20.298
Tenmile Creek	OK410300-03-0270C	5/16/2011	5.2	54	37.3	I	X	29.8	17	134	7.1	10	11.7	0.06	0.16	< 0.02	0.98	0.244	1.16	160	37.1	0.059	0.11	< 10	22.571
Tenmile Creek	OK410300-03-0270C	6/27/2011	3.7	48	7.24	I		46.8	28.6	136	6.8	10.5	5.7	0.02	0.02	< 0.02	0.77	0.056	0.81	86	42.8	0.026	0.05	< 10	0
Tenmile Creek	OK410300-03-0270C	8/1/2011	2.917	38.5	6.82	I			29.7	166	98	11.6	2.7	< 0.02	< 0.02	< 0.02	0.75	0.055	0.79	88	17	0.023	0.06	< 10	0
Tenmile Creek	OK410300-03-0270C	9/6/2011	32.5	37	8.57	I		67.7	21.9	182	6.9	11.3	2.2	0.04	< 0.02	< 0.2	0.81	0.256	1.03	108	62	0.015	0.05	< 10	0
Tenmile Creek	OK410300-03-0270C	10/18/2011	6.85	69	4.32	O		67	16.2	185	7	12.6	2.7	0.05	0.03	< 0.02	0.77	0.101	0.82	108	77	0.008	0.03	< 10	0
Tenmile Creek	OK410300-03-0270C	11/28/2011	8.59	74.5	20.8	I	X	16	9.1	141	6.5	12.1	19.7	0.03	5.05	< 0.02	0.69	5.101	5.76	113	57	0.012	0.03	< 10	
Tenmile Creek	OK410300-03-0270C	1/3/2012	10.54	84.7	10.4	I		62	5.7	135	6.8	9.8	17.5	0.06	1.36	< 0.02	0.61	1.439	1.99	94	16.7	0.013	0.03	< 10	10.595
Tenmile Creek	OK410300-03-0270C	1/30/2012	11.35	94.3	25.7	I	X	44	7.3	81.7	6.7	5.3	12.5		0.96	< 0.02	0.49	0.98	1.47	105	66	0.012	0.03	< 10	
Tenmile Creek	OK410300-03-0270C	3/12/2012			30.7	I	X	29	11.2	110	7.1	9.6	15.2		0.25	< 0.02	0.83	0.27	1.1	161	40	0.016	0.06	17	
Tenmile Creek	OK410300-03-0270C	4/9/2012	7.96	83.3	39.9	I	X	56	17.4	92.4	6.9	6.9	12		0.11	< 0.02	0.64	0.13	0.77	126	46	0.037	0.07	29	
Tenmile Creek	OK410300-03-0270C	5/14/2012			23.4	I	X	41	20.2	139	6.8	11.4	13.9		0.22	< 0.02	0.86	0.24	1.1	114	64	0.052	0.09	< 10	10.297
Terrapin Creek	OK410210-02-0150G	6/7/2010	6.35	82.8	3.33	O		11.1	29.2	40.3	6.8	2.4	2.6	0.04	< 0.02	< 0.02	< 0.11	0.076	0.15	36	11.7	< 0.005	0.02	< 10	2.074
Terrapin Creek	OK410210-02-0150G	7/12/2010	7.39	105	2.6	O		15.7	33.9	45.9	7	4.5	1.6	0.04	< 0.02	< 0.02	0.75	0.08	0.79	37	11.7	< 0.005	0.02	10	
Terrapin Creek	OK410210-02-0150G	8/16/2010	7.24	106	6.19	O		14.7	35.8	47.8	6.7	3.7	1.3	0.04	0.03	< 0.02	0.7	0.088	0.75	25	10.6	0.005	0.03	< 10	
Terrapin Creek	OK410210-02-0150G	9/20/2010	8.52	111	4.7	O		10.6	28.9	43.2	7.2	3.3	3.5	0.02	< 0.02	< 0.02	0.63	0.062	0.67	< 10	10.8	< 0.005	0.02	< 10	6.016
Terrapin Creek	OK410210-02-0150G	10/25/2010	8.8	98.2	6.85	O		12.3	20.7	49.2	6.9	4.3	3.1	< 0.02	< 0.02	< 0.02	0.61	0.055	0.65	41	11.9	< 0.005	0.01	< 10	7.451
Terrapin Creek	OK410210-02-0150G	12/7/2010	12.16	98.9	5.95	O		9.2	6.6	49.2	7.1	4.9	3.7	< 0.02	< 0.02	< 0.02	0.37	0.055	0.41	53	18.5	0.008	0.01	< 10	4.955
Terrapin Creek	OK410210-02-0150G	1/18/2011			9.49	O		9.4	6.2	43.4	6.7	3.6	4.5	< 0.02	0.15	< 0.02	0.37	0.185	0.54	54	21	< 0.005	0.01	< 10	10.768
Terrapin Creek	OK410210-02-0150G	2/22/2011	11.4	110	8.75	O		10.3	13.7	42.1	7	3.5	4.7	< 0.02	0.02	< 0.02	0.17	0.055	0.21	25	11.7	< 0.005	0.01	< 10	16.536
Terrapin Creek	OK410210-02-0150G	4/4/2011	9.09	102	4.86	O		13.4	21	47.7	7.5	3.9	3.8	< 0.02	< 0.02	< 0.02	0.65	0.055	0.69	44	12.9	< 0.005	0.01	< 10	5.484
Terrapin Creek	OK410210-02-0150G	5/16/2011	9.33	105	8.13	O		11.3	21	35.5	7	2.5	3.2	< 0.02	< 0.02	< 0.02	0.25	0.055	0.29	49	8.5	< 0.005	0.01	< 10	12.855
Terrapin Creek	OK410210-02-0150G	6/20/2011	6.25	85.2	3.8	O		14.3	31.8	48.9	6.9	3.2	2	0.04	0.08	< 0.02	0.46	0.136	0.56	57	7.5	0.007	0.02	< 10	< 0.1
Terrapin Creek	OK410210-02-0150G	7/26/2011	5.66	74.5	4.7	I	X	16	29.2	90.1	7	4.5	2.4	0.2	0.25	0.03	1.56	0.475	1.84	75	25.3	0.008	0.03	< 10	0
Terrapin Creek	OK410210-02-0150G	8/29/2011	8.01	104	4.1	O		25.7	28.8	93.3	6.9	10	1.4	0.12	0.08	< 0.02	1.55	0.217	1.65	102	19	< 0.005	0.02	< 10	0
Terrapin Creek	OK410210-02-0150G	10/17/2011	6.45	70	1.83	O		62	19.5	187	7.3	16.4	6.6	0.15	0.05	< 0.02	1.37	0.216	1.44	112	61	0.009	0.05	< 10	0
Terrapin Creek	OK410210-02-0150G	11/14/2011	7.78	87.2	5.79	O		25	20.6	154	7.3	12.8	16.9	0.04	< 0.02	< 0.02	0.93	0.075	0.97	105	32	< 0.005	0.45	< 10	0
Terrapin Creek	OK410210-02-0150G	12/19/2011	11.2	99.8	5.25	O		1.4	10.2	37.3	6.5	3.2	3.9	< 0.02	0.78	< 0.02	0.16	0.815	0.96	20	4.5	< 0.005	0.02	< 10	
Terrapin Creek	OK410210-02-0150G	1/23/2012	11.85	103	3.58	O		6.5	9.3	38.1	7	4.2	4.4		0.31	< 0.02	< 0.11	0.33	0.44	42	7	< 0.005	< 0.01	< 10	39.076
Terrapin Creek	OK410210-02-0150G	3/5/2012	11.21	108	3.55	O		8.5	13.6	39.5	6.8	3.6	4		0.13	< 0.02	0.27	0.15	0.42	68	7.5	< 0.005	0.01	< 10	6.584
Terrapin Creek	OK410210-02-0150G	4/2/2012	8.32	95.1	5.06			7.2	21.8	37.6	7	2.8	3.3		0.09	< 0.02	0.1	0.11	0.21	45	7	< 0.005	0.02	< 10	9.602
Terrapin Creek	OK410210-02-0150G	5/7/2012	7.22	89.5	2.72	O		13.6	26.3	28	6.8	4	3		< 0.02	< 0.02	0.29	0.04	0.33	39	9.2	< 0.005	0.14	< 10	1.1
Waterhole Creek	OK410100-01-0340D	6/8/2010	5.54	68.7	5.06	O		189	26.7	683	7.5	53.1	58.5	0.07	0.19	< 0.02	0.91	0.283	1.12	376	245	0.047	0.07	< 10	1.158
Waterhole Creek	OK410100-01-0340D	7/13/2010	4.55	57.4	16.1																				

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (µS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Waterhole Creek	OK410100-01-0340D	9/21/2010	2.71	31.6	10.4	O		202	25.2	628	7.6	20.7	11.8	0.06	< 0.02	< 0.02	0.9	0.096	0.94	326	281	0.085	0.11	< 10	
Waterhole Creek	OK410100-01-0340D	10/26/2010	4.01	47.9	20.7	I	X	213	19.8	649	7.4	37.8	13.7	< 0.02	< 0.02	< 0.02	1.31	0.055	1.35	296	267	0.138	0.22	< 10	
Waterhole Creek	OK410100-01-0340D	12/8/2010	11.41	91.9	11.8	O		411	7.6	807	6.7	30.6	10.6	0.4	< 0.02	< 0.02	0.88	0.44	0.92	455	362	0.251	0.29	< 10	
Waterhole Creek	OK410100-01-0340D	1/19/2011	6.77	54.8	9.7	I	X	338	6.3	835	7.8	49.5	48	< 0.02	< 0.02	< 0.02	0.55	0.055	0.59	512	404	0.130	0.18	< 10	
Waterhole Creek	OK410100-01-0340D	2/23/2011	6.25	58.8	16.9	I	X	151	12.6	408	7.6	21.2	28.4	< 0.02	< 0.02	< 0.02	0.65	0.055	0.69	185	172	0.057	0.11	< 10	
Waterhole Creek	OK410100-01-0340D	4/5/2011	4.67	46.2	9.59	O		242	15.1	659	8	39.6	23.6	0.03	< 0.02	< 0.02	0.67	0.071	0.71	361	287	0.066	0.1	14	
Waterhole Creek	OK410100-01-0340D	5/24/2011	7.31	82.7	61.4	I	X	60	21.3	129		3.5	5.8	0.11	0.15	0.03	1.18	0.292	1.36	113	52	0.105	0.21	39	
Waterhole Creek	OK410100-01-0340D	6/20/2011	6.43	74.1	29.5	O		184	27.2	6.35	7.9	36.8	46.1	0.04	0.12	< 0.02	1.01	0.182	1.15	360	199	0.081	0.14	22	
Waterhole Creek	OK410100-01-0340D	8/2/2011	4.49	58.1	12.9	O		408	28.9	597	7.6	35.2	31.5	< 0.02	< 0.02	< 0.02	1.11	0.055	1.15	304	242	0.027	0.1	< 10	
Waterhole Creek	OK410100-01-0340D	8/30/2011	2.27	33.6	12.2	O		222	25.1	607	7.8	40	21.5	< 0.02	< 0.02	< 0.02	1.29	0.055	1.33	345	439	0.037	0.08	< 10	
Waterhole Creek	OK410100-01-0340D	10/11/2011	6.35	70.7	8.53	O		214	20.7	632	8.2	59.5	21.5	< 0.02	< 0.02	< 0.02	1	0.055	1.04	340	563	0.023	0.06	< 10	
Waterhole Creek	OK410100-01-0340D	11/15/2011	2.99	27.9	37.2	I	X	236	18.7	446	7.2	42.5	16.4	< 0.02	< 0.02	< 0.02	1.15	0.055	1.19	307	199	0.173	0.26	10	
Waterhole Creek	OK410100-01-0340D	12/20/2011	4.49	83.4				54	10.6	171	6.9	8.3	13	0.04	2.09	0.03	1.29	2.16	3.41	238	103	0.154	0.32	113	
Waterhole Creek	OK410100-01-0340D	1/24/2012	2.27	95.3	15.7	I	X	129	9	380	7.8	22.9	38.4		0.57	< 0.02	0.68	0.59	1.27	203	170	0.017	0.05	< 10	
Waterhole Creek	OK410100-01-0340D	3/6/2012	6.35	110	14.1	O		149	13.5	302	8	29	42.6		< 0.02	< 0.02	0.66	0.04	0.7	254	201	0.019	0.06	< 10	
Waterhole Creek	OK410100-01-0340D	4/3/2012	2.99	69.2	49.9			90	20.1	249	6.9	13.4	16		0.37	0.05	0.93	0.42	1.35	168	138	0.110	0.17	19	
Waterhole Creek	OK410100-01-0340D	5/8/2012	4.08	47.2	11.9	I	X	165	23.5	635	7.5	38	53.5		0.09	< 0.02	0.52	0.11	0.63	402	202	0.025	0.06	< 10	
West Fork Glover River	OK410210-08-0010M	6/7/2010	6.2	80.6	2.98	O		11.8	29	44.9	6.8	2.8	2.7	0.05	< 0.02	< 0.02	0.5	0.089	0.54	50	10.5	0.012	0.04	< 10	
West Fork Glover River	OK410210-08-0010M	7/12/2010	6.23	81.1	4	O		16.6	29	48.5	6.8	3.7	2.1	0.04	< 0.02	< 0.02	0.61	0.077	0.65	32	22	0.015	0.04	< 10	
West Fork Glover River	OK410210-08-0010M	8/16/2010	5.95	82.5	2.83	O		30.2	32	78	6	4.2	1.5	0.04	0.12	< 0.02	0.98	0.181	1.12	35	26	0.018	0.08	< 10	
West Fork Glover River	OK410210-08-0010M	9/20/2010	8.01	102	4.45	O		12	27.7	46.2	7.1	3.2	2.7	0.03	0.16	< 0.02	0.64	0.206	0.82	58	11.1	< 0.005	0.03	< 10	
West Fork Glover River	OK410210-08-0010M	10/25/2010	8.43	93.6	2.11	O		13.7	20.3	49.3	6.9	4.1	2.7	< 0.02	< 0.02	< 0.02	0.54	0.055	0.58	39	14.6	< 0.005	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	12/7/2010	11.81	96.1	5.35	O		11.5	6.5	53	6.9	4.6	3.1	< 0.02	< 0.02	< 0.02	0.23	0.055	0.27	45	20.9	0.007	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	1/18/2011	13.65	108	7.31	O		10.8	5.4	49.3	7	4.1	4.3	0.02	0.37	< 0.02	0.29	0.411	0.68	43	18.1	< 0.005	0.02	< 10	
West Fork Glover River	OK410210-08-0010M	2/22/2011	10.53	97.4	6.85	O		11.9	11.9	46.1	6.9	4.2	4.7	< 0.02	0.11	< 0.02	0.19	0.145	0.32	18	14.8	< 0.005	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	4/4/2011	8.97	100	4.95	O		14.1	20.5	50.3	7.3	4	3.7	0.02	< 0.02	< 0.02	0.36	0.061	0.4	51	14.7	0.008	0.03	< 10	
West Fork Glover River	OK410210-08-0010M	5/16/2011	8.45	92.9	4.16	O		12.2	19.9	44.2	7	3.5	3.4	< 0.02	0.04	< 0.02	0.31	0.075	0.37	49	11.8	< 0.005	0.02	< 10	
West Fork Glover River	OK410210-08-0010M	6/20/2011	7.01	92	2.65	O		15.8	29.6	51.5	6.9	3.3	2.5	0.03	0.02	< 0.02	0.42	0.066	0.46	54	25	0.011	0.03	< 10	
West Fork Glover River	OK410210-08-0010M	7/26/2011	3.86	50.1	2.8	O		49	28.9	83.6	6.9	4.2	1.8	0.07	0.09	< 0.02	0.65	0.179	0.76	62	23.8	0.015	0.04	< 10	
West Fork Glover River	OK410210-08-0010M	8/29/2011	3.5	44.6	6.64	O		67.5	27.5	158	6.8	5.8	1.3	0.07	0.07	< 0.02	1.04	0.163	1.13	92	39.3	0.009	0.06	< 10	
West Fork Glover River	OK410210-08-0010M	10/17/2011	4.67	50	2.11	O		104	18.7	213	7.5	9.9	1.1	0.04	0.03	< 0.02	1.07	0.092	1.12	135	60	< 0.005	0.04	< 10	
West Fork Glover River	OK410210-08-0010M	11/14/2011	8.148	82.3	30.4	O		17	15.6	57.9	6.6	3.7	3.9	0.02	0.64	< 0.02	0.77	0.68	1.43	82	5.2	0.023	0.07	< 10	
West Fork Glover River	OK410210-08-0010M	12/19/2011	11.29	97.3	5.79	O		7.5	8.8	44.7	6.5	3.8	4.1	< 0.02	1.23	< 0.02	0.18	1.265	1.43	29	12.4	0.010	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	1/23/2012	12.33	106	2.98	O		7.5	8.9	46.2	7	4.5	4.1		0.7	< 0.02	< 0.11	0.72	0.83	59	11	< 0.005	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	3/5/2012	10.82	105	10.9	O		9.2	14	46.4	7	4.4	4		0.43	< 0.02	0.31	0.45	0.76	77	10.9	< 0.005	0.01	< 10	
West Fork Glover River	OK410210-08-0010M	4/2/2012	8.47	96.4	3.47			10.1	21.9	43.6	6.9	3.2	3.3		0.17	< 0.02	0.24	0.19	0.43	45	10	< 0.005	0.02	< 10	
West Fork Glover River	OK410210-08-0010M	5/7/2012	6.37	79.7	2.75	O		17.3	26.7	54	6.9	3.8	2.9		< 0.02	< 0.02	0.39	0.04	0.43	35	14.2	< 0.005	0.03	< 10	
Whitegrass Creek	OK410400-01-0210G	6/15/2010	4.36	48.9	164	I	X	105	24	365	6.8	33.1	18.6	0.09	0.17	< 0.02	1.2	0.284	1.39	264	169	0.080	0.17	87	
Whitegrass Creek	OK410400-01-0210G	7/20/2010	4.44	45.1	20	O		100	27	258	6.9	17	10.9	0.03	0.05	< 0.02	0.79	0.097	0.86	179	128	0.021	0.04	< 10	
Whitegrass Creek	OK410400-01-0210G	8/24/2010	2.94	24.3	16.5	O		189	27.5	425	7.7	24.5	3												

Site Name	WBID	Date	DO (mg/L)	DO % Saturation	Turbidity (NTU)	Turbidity Cause	Rainfall Affects Turbidity	Alkalinity (CaCO ₃)	Water Temp (°C)	Conductivity (μS/cm)	pH (SU)	Chloride (mg/L)	Sulfate (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Available N (mg/L)	Total N (mg/L)	TDS (mg/L)	Hardness (mg/L)	OrthoP (mg/L)	Total P (mg/L)	TSS (mg/L)	Flow (cfs)
Whitegrass Creek	OK410400-01-0210G	11/2/2010	2.48	23.6	41.4	O		108	13.3	325	6.3	23.8	16	0.06	0.02	< 0.02	1.11	0.099	1.15	181	178	0.066	0.07	< 10	0
Whitegrass Creek	OK410400-01-0210G	12/14/2010			20.5	O		110	3.3	207	6.6	36.7	14.6	< 0.02	< 0.02	< 0.02	0.8	0.055	0.84	237	175	0.031	0.08	< 10	0
Whitegrass Creek	OK410400-01-0210G	1/25/2011	11	82.5	27.4	O		83	3.6	265	7.1	34.5	14.4	< 0.02	< 0.02	< 0.02	0.45	0.055	0.49	150	153	0.019	0.04	< 10	0
Whitegrass Creek	OK410400-01-0210G	3/8/2011	6.6	60.6	19.5	I	X	103	11.5	309	7.2	35.9	13.8	0.02	< 0.02	< 0.02	0.43	0.058	0.47	173	93	0.017	0.04	< 10	0
Whitegrass Creek	OK410400-01-0210G	4/12/2011	3.2	33.2	38.1	I	X	127	17.3	343	7.3	36.8	9.7	0.02	0.03	< 0.02	1.01	0.068	1.06	228	119	0.037	0.09	< 10	0
Whitegrass Creek	OK410400-01-0210G	5/17/2011	5.28	53.8	54.9	I	X	128	15.7	265	7	23.8	13.5	0.04	0.11	< 0.02	0.86	0.166	0.99	204	95	0.045	0.09	14	17.182
Whitegrass Creek	OK410400-01-0210G	6/27/2011	6.14	77.9	26.1	I		188	28.5	482	7.6	41.6	3.6	0.12	0.03	< 0.02	1.11	0.166	1.16	297	225	0.014	0.04	< 10	0
Whitegrass Creek	OK410400-01-0210G	8/1/2011	16.06		33.5	O		177	34.1	368	8.5	43.5	11.6	< 0.02	< 0.02	< 0.02	1.97	0.055	2.01	204	250	0.012	0.13	34	0
Whitegrass Creek	OK410400-01-0210G	11/28/2011	6.7	57.3	62.4	I	X	35	8.4	196	7	14.1	31.1	0.02	1.35	< 0.02	1.05	1.386	2.42	129	128	0.042	0.13	< 10	0
Whitegrass Creek	OK410400-01-0210G	1/3/2012	9.5	74.7	11.9	I		67	5.2	248	7.3	23.9	25.6	< 0.02	0.3	< 0.02	0.6	0.335	0.92	181	310	0.016	0.05	< 10	1
Whitegrass Creek	OK410400-01-0210G	1/30/2012	11.1	93.5	42.2	I	X	13	17.9	188	7.3	16.3	20.3		1.34	< 0.02	0.79	1.36	2.15	168	124	0.026	0.07	< 10	0
Whitegrass Creek	OK410400-01-0210G	3/12/2012			57.5	I	X	52	11.9	212	7.4	20.4	18.1		0.4	< 0.02	0.87	0.42	1.29	192	115	0.032	0.09	33	
Whitegrass Creek	OK410400-01-0210G	4/9/2012	6.49	66.2	194	I	X	43		155	7.3	8.3	10.6		0.33	0.03	1.59	0.36	1.95	172	126	0.090	0.22	172	
Whitegrass Creek	OK410400-01-0210G	5/14/2012			95.6	I	X	153	20.8	312	7.5	27.7	23.2		0.25	< 0.02	0.96	0.27	1.23	224	136	0.055	0.13	38	
Beaver Creek	OKLRED-108	8/24/2010	3.54	44.5	6.78	O		15	27.1	367	6.4	5.8	12.4	0.06	0.03	< 0.02	1.4	0.105	1.45	157	50	0.027	0.12	21	0.855
Big Cedar Creek	OKLRED-011	6/24/2010	6.6	77	12.3	O		10.8	23.1	40.8										9.3					
Blue River (025)	OKLRED-025	7/21/2010	10.46	125	5.1	O		280	24.2	584	7.8	3.5	6.2	< 0.02	0.32	< 0.02	0.35	0.355	0.69	297	332	0.015	0.03	< 10	64.532
Blue River (025)	OKLRED-025	8/2/2010	6.83	79.2	10.9	O		292	22.7	594	7.8										325				103.01
Blue River (034)	OKLRED-034	7/21/2010	7.17	96.5	14.3	O		227	30.9	460	8	4.6	6.7	0.04	0.1	< 0.02	0.52	0.156	0.64	238	357	0.037	0.05	10	93.766
Blue River (034)	OKLRED-034	8/3/2010	6.42	85.7	10.4	O		227	30.6	455	8.1										275				77.861
Blue River (086)	OKLRED-086	7/21/2010	6	81.3	27.1	I	X	274	31.4	473	8	3.7	3.1	0.04	< 0.02	< 0.02	0.53	0.078	0.57	46	240	0.006	0.02	10	102.31
Blue River (086)	OKLRED-086	8/4/2010	5.6	74.6	19.9	O		200	30.9	464	8										244				61.206
Bois d' Arc Creek (131)	OKLRED-131	5/16/2011	8.02	78.9	6	O		235	14.6	423	7.8										215				1.782
Bois d' Arc Creek (131)	OKLRED-131	5/17/2011	7.72	76.3	5.58	O		196	14.7	341	7.7										239				
Bois d' Arc Creek (009)	OKLRED-009	7/21/2010	11.35	136	1.28	O		264	24.8	539	7.5	4.8	6.4	< 0.02	< 0.02	< 0.02	0.24	0.055	0.28	301		0.027	0.03	< 10	0.137
Bois d' Arc Creek (052)	OKLRED-052	7/19/2010	0.65	8.1	6.76	O		227	26.6	511	7.2	13.7	25.9	0.04	0.94	< 0.02	< 0.11	0.999	1.07	259	227	0.015	0.04	< 10	0
Bois d' Arc Creek (052)	OKLRED-052	7/28/2010	0.79	9.4	6.67	O		258	25	548	7.2														0
Boktuklo Creek	OKLRED-110	8/10/2010	4.66	61.1	1.98	O		14.2	29.2	41.3	6.7										11.1				80.09
Boktuklo Creek	OKLRED-110	8/16/2010	7.39	103	2.31	O		16.9	33.1	425	6.3	46.9	1.7	0.47	0.05	< 0.02	2.06	0.537	2.13	245	20.7	0.019	0.2	38	
Brier Creek	OKLRED-057	8/9/2010			O							6.3	2	0.03	< 0.02	< 0.02	1.22	0.07	1.26	46		0.020	0.09	< 10	
Brier Creek	OKLRED-057	8/19/2010	4.08	52	14.2	O		240	27.7	2734	7.7													> 1	
Buffalo Creek	OKLRED-059	7/27/2010	5.33	70.9	11	I	X	14.8	29.5	48.1	6.5										11.1				0
Buffalo Creek	OKLRED-059	8/23/2010	5.22	70.4	16	O		18.7	30.9	65.6	6.7	25.5	92.2	0.06	0.05	< 0.02	0.74	0.129	0.81	431	16.2	0.023	0.05	20	
Caney Boggy Creek	OKLRED-005	8/9/2010	3.68	46.8	9.4	I		111	27.2	465	7.2	50.5	38.4	0.06	< 0.02	< 0.02	1.17	0.096	1.21	247		0.011	0.08	< 10	
Cedar Creek (046)	OKLRED-046	7/14/2010	5.31	68.8	9.34	I		25	29.3	85.2	6.5														
Cedar Creek (046)	OKLRED-046	7/19/2010	4.79	64.9	5.96	O		25	31.4	87	6.8	4.8	3.8	0.02	< 0.02	< 0.02	0.61	0.056	0.65	49	20	0.013	0.03	< 10	
Cedar Creek (082)	OKLRED-082	7/19/2010	7.25	99	0.94	O		42.8	31.9	122	7.9	2	2.1	< 0.02	< 0.02	< 0.02	0.36	0.055	0.4	22	49.3	< 0.005	0.02	< 10	2.348
Cedar Creek (082)	OKLRED-082	8/16/2010	3.66	47.9	7.37	O		13.1	29.2	31.4	5.7	5.1	8.2	0.02	< 0.02	< 0.02	0.51	0.059	0.55	253	8.8	0.029	0.05	23	0
Chickasaw Creek	OKLRED-019	6/14/2010	6.03	78.2	13	O		31	28.9	149	6.9													11.472	
Chickasaw Creek	OKLRED-019	6/23/2010	4.35	56	12.9	O		27	28.1	158	6.7	10.6	25.2	0.04	0.02	< 0.02	0.53	0.081	0.57	89	42	0.006	0.03	< 10	
Clear Boggy Creek (053)	OKLRED-053	5/19/2010	8.57	92.6	16	I		190	27	453	7.9	4.2	10.2	0.02	0.03	< 0.02	0.33	0.07	0.38	68	255	< 0.005	0.02	< 10	

A.2 Raw bacterial data

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Beech Creek	OK410210-06-0320G	47160	6/7/2010	25	20
Beech Creek	OK410210-06-0320G	47195	7/12/2010	10	10
Beech Creek	OK410210-06-0320G	47259	8/16/2010	10	< 5
Beech Creek	OK410210-06-0320G	47318	9/20/2010	10	20
Beech Creek	OK410210-06-0320G	47553	5/9/2011	60	30
Beech Creek	OK410210-06-0320G	47604	5/23/2011	55	25
Beech Creek	OK410210-06-0320G	47721	6/20/2011	5	< 5
Beech Creek	OK410210-06-0320G	47763	8/1/2011	5	< 5
Beech Creek	OK410210-06-0320G	47785	8/29/2011	120	5
Beech Creek	OK410210-06-0320G	50049	5/7/2012		< 5
Big Cedar Creek	OK410310-02-0100D	47157	6/7/2010	40	15
Big Cedar Creek	OK410310-02-0100D	47192	7/12/2010	100	60
Big Cedar Creek	OK410310-02-0100D	47255	8/16/2010	135	1220
Big Cedar Creek	OK410310-02-0100D	47315	9/20/2010	120	10
Big Cedar Creek	OK410310-02-0100D	47550	5/9/2011	10	10
Big Cedar Creek	OK410310-02-0100D	47601	5/23/2011	30	40
Big Cedar Creek	OK410310-02-0100D	47718	6/20/2011	5	5
Big Cedar Creek	OK410310-02-0100D	47760	8/1/2011	20	20
Big Cedar Creek	OK410310-02-0100D	47782	8/29/2011	230	105
Big Cedar Creek	OK410310-02-0100D	50046	5/7/2012		10
Big Eagle Creek	OK410210-06-0160L	47158	6/7/2010	15	35
Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	70	110
Big Eagle Creek	OK410210-06-0160L	47257	8/16/2010	5	5

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Big Eagle Creek	OK410210-06-0160L	47316	9/20/2010	< 10	30
Big Eagle Creek	OK410210-06-0160L	47551	5/9/2011	< 10	20
Big Eagle Creek	OK410210-06-0160L	47602	5/23/2011	30	15
Big Eagle Creek	OK410210-06-0160L	47719	6/20/2011	< 5	5
Big Eagle Creek	OK410210-06-0160L	47761	8/1/2011	25	25
Big Eagle Creek	OK410210-06-0160L	47783	8/29/2011	640	40
Big Eagle Creek	OK410210-06-0160L	50047	5/7/2012		5
Billy Creek	OK410310-02-0070C	47156	6/7/2010	20	175
Billy Creek	OK410310-02-0070C	47191	7/12/2010	< 10	150
Billy Creek	OK410310-02-0070C	47253	8/16/2010	5	2380
Billy Creek	OK410310-02-0070C	47314	9/20/2010	180	50
Billy Creek	OK410310-02-0070C	47549	5/9/2011	110	210
Billy Creek	OK410310-02-0070C	47600	5/23/2011	110	110
Billy Creek	OK410310-02-0070C	47717	6/20/2011	5 < 5	
Billy Creek	OK410310-02-0070C	47759	8/1/2011	< 5	225
Billy Creek	OK410310-02-0070C	47781	8/29/2011	230	5
Billy Creek	OK410310-02-0070C	50045	5/7/2012		35
Bird Creek	OK410300-01-0100C	47150	6/7/2010	15	25
Bird Creek	OK410300-01-0100C	47205	7/12/2010	120	30
Bird Creek	OK410300-01-0100C	47270	8/16/2010	5 < 5	
Bird Creek	OK410300-01-0100C	47328	9/20/2010	40	20
Bird Creek	OK410300-01-0100C	47563	5/9/2011	40	10
Bird Creek	OK410300-01-0100C	47594	5/16/2011	10	10

Site Name	WBID	Sample ID	Date	Enterococcus	E. coli
Bird Creek	OK410300-01-0100C	47628	6/21/2011	110	40
Bird Creek	OK410300-01-0100C	47736	7/20/2011	15	< 5
Bird Creek	OK410300-01-0100C	47746	7/27/2011	20	5
Bird Creek	OK410300-01-0100C	48838	8/29/2011	10	60
Bird Creek	OK410300-01-0100C	50037	5/8/2012		15
Black Fork of Little River	OK410210-03-0020C	47155	6/8/2010	45	45
Black Fork of Little River	OK410210-03-0020C	47210	7/13/2010	90	30
Black Fork of Little River	OK410210-03-0020C	47275	8/17/2010	5	5
Black Fork of Little River	OK410210-03-0020C	47333	9/21/2010	20	< 10
Black Fork of Little River	OK410210-03-0020C	47568	5/9/2011	10	40
Black Fork of Little River	OK410210-03-0020C	47599	5/17/2011	10	20
Black Fork of Little River	OK410210-03-0020C	47620	6/20/2011	490	130
Black Fork of Little River	OK410210-03-0020C	47730	7/20/2011	20	5
Black Fork of Little River	OK410210-03-0020C	47738	7/26/2011	> 1000	230
Black Fork of Little River	OK410210-03-0020C	48843	8/30/2011	95	< 5
Black Fork of Little River	OK410210-03-0020C	50028	5/7/2012		30
Bokchito Creek	OK410600-01-0090G	47174	6/14/2010	220	1860
Bokchito Creek	OK410600-01-0090G	47229	7/19/2010	50	10
Bokchito Creek	OK410600-01-0090G	47280	8/23/2010	< 5	770
Bokchito Creek	OK410600-01-0090G	47338	9/27/2010	100	20
Bokchito Creek	OK410600-01-0090G	47583	5/16/2011	30	10
Bokchito Creek	OK410600-01-0090G	47638	6/28/2011	130	15
Bokchito Creek	OK410600-01-0090G	47758	8/2/2011	95	130
Bokchito Creek	OK410600-01-0090G	47773	8/23/2011	50	90

Site Name	WBID	Sample ID	Date	Enterococcus	E. coli
Bokchito Creek	OK410600-01-0090G	49593	9/7/2011	20	< 5
Bokchito Creek	OK410600-01-0090G	50088	5/15/2012		160
Buck Creek	OK410310-03-0420C	47171	6/14/2010	60	400
Buck Creek	OK410310-03-0420C	47225	7/19/2010	30	100
Buck Creek	OK410310-03-0420C	47276	8/23/2010	< 5	< 5
Buck Creek	OK410310-03-0420C	47334	9/27/2010	150	70
Buck Creek	OK410310-03-0420C	47579	5/16/2011	10	10
Buck Creek	OK410310-03-0420C	47632	6/27/2011	10	20
Buck Creek	OK410310-03-0420C	47751	8/1/2011	25	10
Buck Creek	OK410310-03-0420C	49587	9/6/2011	< 5	< 5
Buck Creek	OK410310-03-0420C	48859	9/14/2011	445	90
Buck Creek	OK410310-03-0420C	50083	5/14/2012		115
Buffalo Creek	OK410210-06-0020G	47161	6/7/2010	< 5	5
Buffalo Creek	OK410210-06-0020G	47196	7/12/2010	10	< 10
Buffalo Creek	OK410210-06-0020G	47260	8/16/2010	35	< 5
Buffalo Creek	OK410210-06-0020G	47319	9/20/2010	< 10	10
Buffalo Creek	OK410210-06-0020G	47554	5/9/2011	10	60
Buffalo Creek	OK410210-06-0020G	47605	5/23/2011	240	370
Buffalo Creek	OK410210-06-0020G	47722	6/30/2011	< 5	10
Buffalo Creek	OK410210-06-0020G	47764	8/1/2011	15	10
Buffalo Creek	OK410210-06-0020G	47786	8/29/2011	705	30
Buffalo Creek	OK410210-06-0020G	50050	5/7/2012		35
Caddo Creek	OK410600-01-0140G	47175	6/14/2010	60	10
Caddo Creek	OK410600-01-0140G	47230	7/19/2010	30	10

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Caddo Creek	OK410600-01-0140G	47281	8/23/2010	< 5	360
Caddo Creek	OK410600-01-0140G	47339	9/27/2010	260	10
Caddo Creek	OK410600-01-0140G	47584	5/16/2011	30	30
Caddo Creek	OK410600-01-0140G	47637	6/28/2011	20	25
Caddo Creek	OK410600-01-0140G	47757	8/2/2011	75	75
Caddo Creek	OK410600-01-0140G	47774	8/23/2011	10	20
Caddo Creek	OK410600-01-0140G	49594	9/7/2011	40	10
Caddo Creek	OK410600-01-0140G	50089	5/15/2012		10
Caney Boggy Creek	OK410400-06-0120G	47135	6/7/2010	490	325
Caney Boggy Creek	OK410400-06-0120G	47181	7/12/2010	390	130
Caney Boggy Creek	OK410400-06-0120G	47243	8/16/2010	325	20
Caney Boggy Creek	OK410400-06-0120G	47298	8/25/2010	1420	2900
Caney Boggy Creek	OK410400-06-0120G	47303	9/20/2010	150	60
Caney Boggy Creek	OK410400-06-0120G	47569	5/16/2011	160	120
Caney Boggy Creek	OK410400-06-0120G	47611	6/20/2011	670	110
Caney Boggy Creek	OK410400-06-0120G	48801	7/26/2011	110	260
Caney Boggy Creek	OK410400-06-0120G	47777	8/23/2011	< 5	10
Caney Boggy Creek	OK410400-06-0120G	48828	8/29/2011	25	25
Caney Boggy Creek	OK410400-06-0120G	50055	5/7/2012		155
Caney Creek	OK410400-02-0200G	47173	6/14/2010	120	100
Caney Creek	OK410400-02-0200G	47228	7/19/2010	10	190
Caney Creek	OK410400-02-0200G	47279	8/23/2010	95	610
Caney Creek	OK410400-02-0200G	47337	9/27/2010	600	470
Caney Creek	OK410400-02-0200G	47582	5/16/2011	240	250

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Caney Creek	OK410400-02-0200G	47639	6/28/2011	245	185
Caney Creek	OK410400-02-0200G	47748	8/1/2011	555	335
Caney Creek	OK410400-02-0200G	49584	9/6/2011	538	620
Caney Creek	OK410400-02-0200G	48861	9/14/2011	70	105
Caney Creek	OK410400-02-0200G	50080	5/14/2012		220
Caney Creek (upper)	OK410400-03-0020C	47142	6/8/2010	325	100
Caney Creek (upper)	OK410400-03-0020C	47188	7/13/2010	1020	780
Caney Creek (upper)	OK410400-03-0020C	47250	8/17/2010	385	30
Caney Creek (upper)	OK410400-03-0020C	47296	8/25/2010	1840	60
Caney Creek (upper)	OK410400-03-0020C	47310	9/21/2010	100	< 10
Caney Creek (upper)	OK410400-03-0020C	47576	5/17/2011	370	150
Caney Creek (upper)	OK410400-03-0020C	47618	6/21/2011	350	80
Caney Creek (upper)	OK410400-03-0020C	48808	7/27/2011	25	< 5
Caney Creek (upper)	OK410400-03-0020C	48855	9/13/2011	135	405
Caney Creek (upper)	OK410400-03-0020C	50062	5/8/2012		> 5000
Cedar Creek	OK410300-03-0020M	47153	6/8/2010	55	55
Cedar Creek	OK410300-03-0020M	47208	7/13/2010	70	60
Cedar Creek	OK410300-03-0020M	47273	8/17/2010	170	15
Cedar Creek	OK410300-03-0020M	47331	9/21/2010	20	110
Cedar Creek	OK410300-03-0020M	47566	5/9/2011	40	20
Cedar Creek	OK410300-03-0020M	47597	5/17/2011	20	10
Cedar Creek	OK410300-03-0020M	47626	6/21/2011	130	50
Cedar Creek	OK410300-03-0020M	47728	7/20/2011	10	60
Cedar Creek	OK410300-03-0020M	47744	7/27/2011	30	< 5

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Cedar Creek	OK410300-03-0020M	48841	8/30/2011	5	< 5
Cedar Creek	OK410300-03-0020M	50034	5/8/2012		2340
Cloudy Creek	OK410210-02-0300C	47152	6/8/2010	80	70
Cloudy Creek	OK410210-02-0300C	47206	7/13/2010	230	< 10
Cloudy Creek	OK410210-02-0300C	47271	8/17/2010	40	15
Cloudy Creek	OK410210-02-0300C	47329	9/21/2010	10	10
Cloudy Creek	OK410210-02-0300C	47565	5/9/2011	50	100
Cloudy Creek	OK410210-02-0300C	47595	5/17/2011	30	< 10
Cloudy Creek	OK410210-02-0300C	47624	6/20/2011	< 10	< 10
Cloudy Creek	OK410210-02-0300C	47734	7/20/2011	10	< 5
Cloudy Creek	OK410210-02-0300C	47742	7/26/2011	< 5	< 5
Cloudy Creek	OK410210-02-0300C	48839	8/30/2011	20	20
Cloudy Creek	OK410210-02-0300C	50032	5/7/2012		10
Cow Creek	OK410210-06-0350G	47159	6/7/2010	35	35
Cow Creek	OK410210-06-0350G	47194	7/12/2010	50	70
Cow Creek	OK410210-06-0350G	47258	8/16/2010	5	10
Cow Creek	OK410210-06-0350G	47317	9/20/2010	30	20
Cow Creek	OK410210-06-0350G	47552	5/9/2011	20	< 10
Cow Creek	OK410210-06-0350G	47603	5/23/2011	205	60
Cow Creek	OK410210-06-0350G	47720	6/20/2011	< 5	< 5
Cow Creek	OK410210-06-0350G	47762	8/1/2011	310	1200
Cow Creek	OK410210-06-0350G	47784	8/29/2011	190	25
Cow Creek	OK410210-06-0350G	50048	5/7/2012		< 5
Cypress Creek	OK410210-01-0070G	47149	6/7/2010	10	< 5

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Cypress Creek	OK410210-01-0070G	47204	7/12/2010	< 10	< 10
Cypress Creek	OK410210-01-0070G	47269	8/16/2010	5	5
Cypress Creek	OK410210-01-0070G	47327	9/20/2010	< 10	< 10
Cypress Creek	OK410210-01-0070G	47562	5/9/2011	< 10	30
Cypress Creek	OK410210-01-0070G	47593	5/16/2011	< 10	< 10
Cypress Creek	OK410210-01-0070G	47629	6/21/2011	10	< 10
Cypress Creek	OK410210-01-0070G	47747	7/27/2011	5	< 5
Cypress Creek	OK410210-01-0070G	48837	8/29/2011	5	5
Cypress Creek	OK410210-01-0070G	50038	5/8/2012		80
Delaware Creek	OK410400-03-0240M	47138	6/7/2010	150	45
Delaware Creek	OK410400-03-0240M	47184	7/12/2010	610	80
Delaware Creek	OK410400-03-0240M	47246	8/16/2010	45	170
Delaware Creek	OK410400-03-0240M	47301	8/25/2010	20	5
Delaware Creek	OK410400-03-0240M	47306	9/20/2010	90	60
Delaware Creek	OK410400-03-0240M	47572	5/16/2011	110	140
Delaware Creek	OK410400-03-0240M	47614	6/20/2011	90	30
Delaware Creek	OK410400-03-0240M	47770	8/23/2011	40	5
Delaware Creek	OK410400-03-0240M	48830	8/29/2011	370	680
Delaware Creek	OK410400-03-0240M	50058	5/7/2012		235
East Fork Glover River	OK410210-09-0010G	47146	6/7/2010	45	30
East Fork Glover River	OK410210-09-0010G	47201	7/12/2010	370	120
East Fork Glover River	OK410210-09-0010G	47266	8/16/2010	< 5	30
East Fork Glover River	OK410210-09-0010G	47324	9/20/2010	20	30
East Fork Glover River	OK410210-09-0010G	47559	5/9/2011	50	80

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
East Fork Glover River	OK410210-09-0010G	47590	5/16/2011	< 10	20
East Fork Glover River	OK410210-09-0010G	47621	6/20/2011	10	< 10
East Fork Glover River	OK410210-09-0010G	47731	7/20/2011	50	10
East Fork Glover River	OK410210-09-0010G	47739	7/26/2011	140	< 5
East Fork Glover River	OK410210-09-0010G	48834	8/29/2011	105	30
East Fork Glover River	OK410210-09-0010G	50029	5/7/2012		< 5
Goose Creek	OK410400-03-0490G	47137	6/7/2010	495	280
Goose Creek	OK410400-03-0490G	47183	7/12/2010	580	220
Goose Creek	OK410400-03-0490G	47245	8/16/2010	240	< 5
Goose Creek	OK410400-03-0490G	47300	8/25/2010	< 5	< 5
Goose Creek	OK410400-03-0490G	47305	9/20/2010	300	40
Goose Creek	OK410400-03-0490G	47571	5/16/2011	50	160
Goose Creek	OK410400-03-0490G	47613	6/20/2011	80	20
Goose Creek	OK410400-03-0490G	50057	5/7/2012		75
Horse Creek	OK410400-01-0040G	47179	6/15/2010	2800	3200
Horse Creek	OK410400-01-0040G	47235	7/20/2010	440	140
Horse Creek	OK410400-01-0040G	47286	8/24/2010	165	185
Horse Creek	OK410400-01-0040G	47344	9/28/2010	490	420
Horse Creek	OK410400-01-0040G	47589	5/17/2011	70	200
Horse Creek	OK410400-01-0040G	47635	6/27/2011	20	20
Horse Creek	OK410400-01-0040G	47752	8/1/2011	< 5	15
Horse Creek	OK410400-01-0040G	48857	8/14/2011	< 5	< 5
Horse Creek	OK410400-01-0040G	49588	9/6/2011	30	40
Horse Creek	OK410400-01-0040G	50036	5/8/2012		235

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Island Bayou	OK410700-00-0040G	47176	6/15/2010	960	260
Island Bayou	OK410700-00-0040G	47231	7/20/2010	140	120
Island Bayou	OK410700-00-0040G	47282	8/24/2010	300	65
Island Bayou	OK410700-00-0040G	47340	9/28/2010	460	170
Island Bayou	OK410700-00-0040G	47585	5/17/2011	350	250
Island Bayou	OK410700-00-0040G	47636	6/27/2011	25	30
Island Bayou	OK410700-00-0040G	47756	8/2/2011	165	30
Island Bayou	OK410700-00-0040G	47772	8/23/2011	35	70
Island Bayou	OK410700-00-0040G	49592	9/7/2011	145	< 5
Island Bayou	OK410700-00-0040G	50087	5/15/2012		175
Leader Creek	OK410400-03-0370B	47136	6/7/2010	145	10
Leader Creek	OK410400-03-0370B	47182	7/12/2010	420	140
Leader Creek	OK410400-03-0370B	47244	8/16/2010	110	20
Leader Creek	OK410400-03-0370B	47299	8/25/2010	20	10
Leader Creek	OK410400-03-0370B	47304	9/20/2010	100	70
Leader Creek	OK410400-03-0370B	47570	5/16/2011	310	140
Leader Creek	OK410400-03-0370B	47612	6/20/2011	70	30
Leader Creek	OK410400-03-0370B	48802	7/26/2011	170	30
Leader Creek	OK410400-03-0370B	47769	8/23/2011	425	20
Leader Creek	OK410400-03-0370B	48829	8/29/2011	70	350
Leader Creek	OK410400-03-0370B	50056	5/7/2012		80
Lick Creek	OK410400-01-0130G	47180	6/15/2010	3900	1600
Lick Creek	OK410400-01-0130G	47234	7/20/2010	150	10
Lick Creek	OK410400-01-0130G	47343	9/28/2010	480	100

Site Name	WBID	Sample ID	Date	Enterococcus	E. coli
Lick Creek	OK410400-01-0130G	47588	5/17/2011	70	420
Lick Creek	OK410400-01-0130G	47633	6/27/2011	250	55
Lick Creek	OK410400-01-0130G	47753	8/1/2011	20	15
Lick Creek	OK410400-01-0130G	48856	9/14/2011	20	130
Lick Creek	OK410400-01-0130G	50084	5/14/2012		430
Little West Blue Creek	OK410600-02-0100C	47140	6/7/2010	60	95
Little West Blue Creek	OK410600-02-0100C	47186	7/12/2010	220	50
Little West Blue Creek	OK410600-02-0100C	47248	8/16/2010	70	15
Little West Blue Creek	OK410600-02-0100C	47308	9/20/2010	110	10
Little West Blue Creek	OK410600-02-0100C	47313	9/21/2010	150	100
Lukfata Creek	OK410210-07-0010G	47163	6/8/2010	135	315
Lukfata Creek	OK410210-07-0010G	47198	7/13/2010	190	280
Lukfata Creek	OK410210-07-0010G	47263	8/17/2010	75	5
Lukfata Creek	OK410210-07-0010G	47321	9/21/2010	20	< 10
Lukfata Creek	OK410210-07-0010G	47556	5/9/2011	220	810
Lukfata Creek	OK410210-07-0010G	47607	5/24/2011	470	180
Lukfata Creek	OK410210-07-0010G	47724	6/20/2011	10	30
Lukfata Creek	OK410210-07-0010G	47766	8/2/2011	20	20
Lukfata Creek	OK410210-07-0010G	47788	8/30/2011	15	< 5
Lukfata Creek	OK410210-07-0010G	50052	5/8/2012		315
McGee Creek	OK410400-07-0010C	47172	6/14/2010	< 20	< 20
McGee Creek	OK410400-07-0010C	47227	7/19/2010	10	80
McGee Creek	OK410400-07-0010C	47278	8/23/2010	< 5	5
McGee Creek	OK410400-07-0010C	47336	9/27/2010	< 10	10

Site Name	WBID	Sample ID	Date	Enterococcus	E. coli
McGee Creek	OK410400-07-0010C	47581	5/16/2011	10	< 10
McGee Creek	OK410400-07-0010C	47630	6/27/2011	< 5	30
McGee Creek	OK410400-07-0010C	47749	8/1/2011	< 5	< 5
McGee Creek	OK410400-07-0010C	49585	9/6/2011	5	5
McGee Creek	OK410400-07-0010C	48860	9/14/2011	135	10
McGee Creek	OK410400-07-0010C	50081	5/14/2012		5
Mineral Bayou	OK410600-01-0300G	47143	6/8/2010	175	335
Mineral Bayou	OK410600-01-0300G	47189	7/13/2010	430	320
Mineral Bayou	OK410600-01-0300G	47251	8/17/2010	20	85
Mineral Bayou	OK410600-01-0300G	47295	8/25/2010	540	1060
Mineral Bayou	OK410600-01-0300G	47311	9/21/2010	170	150
Mineral Bayou	OK410600-01-0300G	47575	5/17/2011	300	300
Mineral Bayou	OK410600-01-0300G	47617	6/21/2011	820	240
Mineral Bayou	OK410600-01-0300G	48807	7/27/2011	65	5
Mineral Bayou	OK410600-01-0300G	47775	8/23/2011	5	10
Mineral Bayou	OK410600-01-0300G	48832	8/30/2011	25	85
Mineral Bayou	OK410600-01-0300G	50061	5/8/2012		105
North Boggy Creek	OK410400-08-0010M	47141	6/8/2010	35	25
North Boggy Creek	OK410400-08-0010M	47187	7/13/2010	< 10	20
North Boggy Creek	OK410400-08-0010M	47249	8/17/2010	160	115
North Boggy Creek	OK410400-08-0010M	47297	8/25/2010	70	< 5
North Boggy Creek	OK410400-08-0010M	47309	9/21/2010	180	< 10
North Boggy Creek	OK410400-08-0010M	47577	5/17/2011	40	90
North Boggy Creek	OK410400-08-0010M	47619	6/21/2011	110	130

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
North Boggy Creek	OK410400-08-0010M	48809	7/27/2011	45	25
North Boggy Creek	OK410400-08-0010M	47776	8/23/2011	60	50
North Boggy Creek	OK410400-08-0010M	48833	8/30/2011	40	45
North Boggy Creek	OK410400-08-0010M	50063	5/8/2012		340
Norwood Creek	OK410100-01-0050H	47164	6/8/2010	265	140
Norwood Creek	OK410100-01-0050H	47199	7/13/2010	> 5000	1850
Norwood Creek	OK410100-01-0050H	47264	8/17/2010	140	275
Norwood Creek	OK410100-01-0050H	47322	9/21/2010	450	180
Norwood Creek	OK410100-01-0050H	47557	5/9/2011	70	790
Norwood Creek	OK410100-01-0050H	47608	5/24/2011	220	50
Norwood Creek	OK410100-01-0050H	47725	6/20/2011	25	55
Norwood Creek	OK410100-01-0050H	47767	8/2/2011	105	15
Norwood Creek	OK410100-01-0050H	47789	8/30/2011	30	10
Norwood Creek	OK410100-01-0050H	50053	5/8/2012		750
One Creek	OK410300-03-0060F	47154	6/8/2010	140	25
One Creek	OK410300-03-0060F	47209	7/13/2010	140	130
One Creek	OK410300-03-0060F	47274	8/17/2010	105	35
One Creek	OK410300-03-0060F	47332	9/21/2010	40	30
One Creek	OK410300-03-0060F	47567	5/9/2011	90	40
One Creek	OK410300-03-0060F	47598	5/17/2011	30	40
One Creek	OK410300-03-0060F	47627	6/21/2011	1040	220
One Creek	OK410300-03-0060F	47729	7/20/2011	175	645
One Creek	OK410300-03-0060F	47745	7/27/2011	70	45
One Creek	OK410300-03-0060F	48842	8/30/2011	105	35

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
One Creek	OK410300-03-0060F	50035	5/8/2012		> 5000
Rock Creek (McCurtain)	OK410200-03-0010G	47162	6/8/2010	110	190
Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	900	60
Rock Creek (McCurtain)	OK410200-03-0010G	47262	8/17/2010	455	50
Rock Creek (McCurtain)	OK410200-03-0010G	47320	9/21/2010	70	20
Rock Creek (McCurtain)	OK410200-03-0010G	47555	5/9/2011	20	90
Rock Creek (McCurtain)	OK410200-03-0010G	47606	5/24/2011	330	270
Rock Creek (McCurtain)	OK410200-03-0010G	47723	6/20/2011	10	5
Rock Creek (McCurtain)	OK410200-03-0010G	47765	8/2/2011	35	5
Rock Creek (McCurtain)	OK410200-03-0010G	47787	8/30/2011	30	< 5
Rock Creek (McCurtain)	OK410200-03-0010G	50051	5/8/2012		125
Rock Creek (Pushmataha)	OK410300-02-0190G	47151	6/7/2010	15	5
Rock Creek (Pushmataha)	OK410300-02-0190G	47207	7/13/2010	380	< 10
Rock Creek (Pushmataha)	OK410300-02-0190G	47272	8/17/2010	235	10
Rock Creek (Pushmataha)	OK410300-02-0190G	47330	9/21/2010	30	< 10
Rock Creek (Pushmataha)	OK410300-02-0190G	47564	5/9/2011	20	80
Rock Creek (Pushmataha)	OK410300-02-0190G	47596	5/17/2011	50	50
Rock Creek (Pushmataha)	OK410300-02-0190G	47625	6/20/2011	20	< 10
Rock Creek (Pushmataha)	OK410300-02-0190G	47735	7/20/2011	20	< 5
Rock Creek (Pushmataha)	OK410300-02-0190G	47743	7/26/2011	15	5
Rock Creek (Pushmataha)	OK410300-02-0190G	48840	8/30/2011	35	10
Rock Creek (Pushmataha)	OK410300-02-0190G	50033	5/7/2012		< 5
Sand Creek	OK410700-00-0260G	47144	6/8/2010	170	20
Sand Creek	OK410700-00-0260G	47190	7/13/2010	410	70

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Sand Creek	OK410700-00-0260G	47252	8/17/2010	355	105
Sand Creek	OK410700-00-0260G	47294	8/25/2010	480	50
Sand Creek	OK410700-00-0260G	47312	9/21/2010	220	20
Sand Creek	OK410700-00-0260G	47574	5/17/2011	230	140
Sand Creek	OK410700-00-0260G	47616	6/21/2011	430	90
Sand Creek	OK410700-00-0260G	48806	7/27/2011	365	35
Sand Creek	OK410700-00-0260G	47771	8/23/2011	35	10
Sand Creek	OK410700-00-0260G	48831	8/30/2011	325	275
Sand Creek	OK410700-00-0260G	50060	5/8/2012		80
Sandy Creek	OK410600-02-0020G	47139	6/7/2010	185	90
Sandy Creek	OK410600-02-0020G	47185	7/12/2010	470	80
Sandy Creek	OK410600-02-0020G	47247	8/16/2010	2300	1940
Sandy Creek	OK410600-02-0020G	47302	8/25/2010	1220	520
Sandy Creek	OK410600-02-0020G	47307	9/20/2010	80	30
Sandy Creek	OK410600-02-0020G	47573	5/16/2011	200	60
Sandy Creek	OK410600-02-0020G	47615	6/20/2011	50	10
Sandy Creek	OK410600-02-0020G	48805	7/26/2011	385	15
Sandy Creek	OK410600-02-0020G	50059	5/7/2012		115
Sulphur Creek	OK410600-01-0030G	47177	6/15/2010	> 5000	> 5000
Sulphur Creek	OK410600-01-0030G	47232	7/20/2010	770	120
Sulphur Creek	OK410600-01-0030G	47283	8/24/2010	690	500
Sulphur Creek	OK410600-01-0030G	47341	9/28/2010	200	50
Sulphur Creek	OK410600-01-0030G	47586	5/17/2011	170	90
Sulphur Creek	OK410600-01-0030G	50086	5/14/2012		100

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Tenmile Creek	OK410300-03-0270C	47170	6/14/2010	60	60
Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	< 10	390
Tenmile Creek	OK410300-03-0270C	47335	9/27/2010	80	150
Tenmile Creek	OK410300-03-0270C	47580	5/16/2011	50	70
Tenmile Creek	OK410300-03-0270C	47631	6/27/2011	30	15
Tenmile Creek	OK410300-03-0270C	47750	8/1/2011	5	10
Tenmile Creek	OK410300-03-0270C	49586	9/6/2011	< 5	< 5
Tenmile Creek	OK410300-03-0270C	48858	9/14/2011	75	25
Tenmile Creek	OK410300-03-0270C	50082	5/14/2012		220
Terrapin Creek	OK410210-02-0150G	47148	6/7/2010	10	10
Terrapin Creek	OK410210-02-0150G	47203	7/12/2010	< 10	< 10
Terrapin Creek	OK410210-02-0150G	47268	8/16/2010	10	< 5
Terrapin Creek	OK410210-02-0150G	47326	9/20/2010	< 10	< 10
Terrapin Creek	OK410210-02-0150G	47561	5/9/2011	40	30
Terrapin Creek	OK410210-02-0150G	47592	5/16/2011	< 10	< 10
Terrapin Creek	OK410210-02-0150G	47623	6/20/2011	1550	610
Terrapin Creek	OK410210-02-0150G	47733	7/20/2011	< 5	< 5
Terrapin Creek	OK410210-02-0150G	47741	7/26/2011	> 1000	205
Terrapin Creek	OK410210-02-0150G	48836	8/29/2011	40	30
Terrapin Creek	OK410210-02-0150G	50031	5/7/2012		1200
Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	310	10
Waterhole Creek	OK410100-01-0340D	47265	8/17/2010	125	30
Waterhole Creek	OK410100-01-0340D	47323	9/21/2010	60	< 10
Waterhole Creek	OK410100-01-0340D	47558	5/9/2011	190	110

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Waterhole Creek	OK410100-01-0340D	47609	5/24/2011	460	420
Waterhole Creek	OK410100-01-0340D	47726	6/20/2011	70	190
Waterhole Creek	OK410100-01-0340D	47768	8/2/2011	50	10
Waterhole Creek	OK410100-01-0340D	47790	8/30/2011	70	5
Waterhole Creek	OK410100-01-0340D	50054	5/8/2012		315
West Fork Glover River	OK410210-08-0010M	47147	6/7/2010	15	20
West Fork Glover River	OK410210-08-0010M	47202	7/12/2010	70	30
West Fork Glover River	OK410210-08-0010M	47267	8/16/2010	< 5	< 5
West Fork Glover River	OK410210-08-0010M	47325	9/20/2010	20	10
West Fork Glover River	OK410210-08-0010M	47560	5/9/2011	10	60
West Fork Glover River	OK410210-08-0010M	47591	5/16/2011	< 10	< 10
West Fork Glover River	OK410210-08-0010M	47622	6/20/2011	710	320
West Fork Glover River	OK410210-08-0010M	47732	7/20/2011	55	< 5
West Fork Glover River	OK410210-08-0010M	47740	7/26/2011	> 1000	50
West Fork Glover River	OK410210-08-0010M	48835	8/29/2011	105	80
West Fork Glover River	OK410210-08-0010M	50030	5/7/2012		10
Whitegrass Creek	OK410400-01-0210G	47178	6/15/2010	> 5000	> 5000
Whitegrass Creek	OK410400-01-0210G	47233	7/20/2010	540	170
Whitegrass Creek	OK410400-01-0210G	47284	8/24/2010	135	310
Whitegrass Creek	OK410400-01-0210G	47342	9/28/2010	340	150
Whitegrass Creek	OK410400-01-0210G	47587	5/17/2011	180	160
Whitegrass Creek	OK410400-01-0210G	47634	6/27/2011	35	45
Whitegrass Creek	OK410400-01-0210G	47755	8/1/2011	10	< 5
Whitegrass Creek	OK410400-01-0210G	50085	5/14/2012		460

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Beaver Creek	OKLRED-108	47291	8/24/2010	105	515
Blue River	OKLRED-025	47239	7/21/2010	130	< 10
Blue River	OKLRED-034	47238	7/21/2010	50	20
Blue River	OKLRED-086	47237	7/21/2010	110	40
Bois d Arc Creek	OKLRED-131	47578	5/17/2011	220	105
Bois d' Arc Creek	OKLRED-009	46402	7/21/2010	80	30
Bois d' Arc Creek	OKLRED-052	47212	7/19/2010	150	40
Boktuklo Creek	OKLRED-110	47261	8/16/2010	120	< 5
Buffalo Creek	OKLRED-059	47288	8/23/2010	20	5
Caney Boggy Creek	OKLRED-005	46404	8/9/2010	40	10
Cedar Creek	OKLRED-046	47211	7/19/2010	< 10	< 10
Cedar Creek	OKLRED-082	47218	7/19/2010	10	< 10
Cedar Creek	OKLRED-082	47256	8/16/2010	< 5	5
Chickasaw Creek	OKLRED-019	47166	6/23/2010	50	10
Clear Boggy Creek	OKLRED-053	47132	5/19/2010	1200	450
Clear Boggy Creek	OKLRED-075	46442	8/11/2010	80	10
Clear Boggy Creek	OKLRED-094	47241	8/9/2010	< 10	< 10
Coon Creek	OKLRED-010	47217	7/19/2010	100	< 10
Cucumber Creek	OKLRED-118	47727	7/5/2011	10	10
Cypress Creek	OKLRED-072	47221	7/20/2010	470	570
Dry Creek	OKLRED-054	47168	6/23/2010	10	130
Dry Creek	OKLRED-095	47169	6/23/2010	650	35
East Billy Creek	OKLRED-089	47254	8/16/2010	< 5	5
East Fork Glover River	OKLRED-015	47216	7/19/2010	10	< 10

Site Name	WBID	Sample ID	Date	<i>Enterococcus</i>	<i>E. coli</i>
Glover River	OKLRED-048	47222	7/20/2010	250	50
Kiamichi River	OKLRED-014	47167	6/23/2010	25	10
Kiamichi River	OKLRED-028	47224	7/20/2010	20	< 10
Kiamichi River	OKLRED-030	47214	7/20/2010	160	10
Little River	OKLRED-020	47289	8/23/2010	25	25
Long Creek	OKLRED-016	47133	5/19/2010	< 10	40
McGee Creek	OKLRED-023	47134	6/1/2010	115	20
McGee Creek	OKLRED-051	47240	8/9/2010	< 10	10
Muddy Boggy Creek	OKLRED-068	47236	7/21/2010	80	10
North Boggy Creek	OKLRED-007	46405	8/10/2010	< 10	10
North Watson Creek	OKLRED-107	47287	8/23/2010	20	15
Norwood Creek	OKLRED-004	47219	7/19/2010	500	60
Salt Creek	OKLRED-101	47213	7/19/2010	190	80
Sandy Creek	OKLRED-041	45984	7/20/2010	< 10	10
Sandy Creek	OKLRED-116	48862	9/14/2011	10	< 5
Turkey Creek	OKLRED-037	46400	7/19/2010	390	40
Turkey Creek	OKLRED-111	47610	5/31/2011	1070	510
Unnamed Creek	OKLRED-021	46401	7/20/2010	730	190
Unnamed Creek	OKLRED-098	47215	7/19/2010	10	< 10
Waterhole Creek	OKLRED-060	47220	7/20/2010	610	60
West Fork Glover River	OKLRED-077	47223	7/20/2010	60	< 10
West Terrapin Creek	OKLRED-026	47145	6/7/2010	70	< 5

A.3 Descriptive statistics by site for water quality parameters

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
DO (mg/L)	Beech Creek	OK410210-06-0320G	18	1	8.512	0.467	1.98	4.03	7.15	8.7	9.423	12.56
	Big Cedar Creek	OK410310-02-0100D	17	3	7.82	0.453	1.867	4.25	6.49	7.45	9.195	11.52
	Big Eagle Creek	OK410210-06-0160L	17	1	7.678	0.613	2.529	3.57	6.21	7.62	9.265	12.33
	Billy Creek	OK410310-02-0070C	16	1	5.546	0.685	2.739	1.77	3.498	5	7.495	12.36
	Bird Creek	OK410300-01-0100C	16	3	8.57	0.812	3.248	4.15	5.423	8.39	11.08	14.7
	Black Fork of Little River	OK410210-03-0020C	21	4	7.053	0.689	3.158	3.2	3.96	6.6	10.345	12
	Bokchito Creek	OK410600-01-0090G	18	5	7.758	0.59	2.505	4.36	5.858	6.73	10.233	12.66
	Buck Creek	OK410310-03-0420C	14	4	6.583	0.597	2.233	3.9	5.073	6.075	7.69	12.31
	Buffalo Creek	OK410210-06-0020G	17	0	8.554	0.616	2.54	4.37	6.665	7.67	10.725	12.78
	Caddo Creek	OK410600-01-0140G	18	3	5.723	0.615	2.61	0.99	3.875	5.64	7.468	11.12
	Caney Boggy Creek	OK410400-06-0120G	17	5	8.24	2.08	8.56	0.79	4.43	6.47	9.71	39.3
	Caney Creek (lower)	OK410400-02-0200G	17	5	6.794	0.786	3.239	2.02	4.61	5.85	8.71	14.4
	Caney Creek (upper)	OK410400-03-0020C	16	6	7.89	0.559	2.237	5.26	5.688	7.71	9.86	11.88
	Cedar Creek	OK410300-03-0020M	20	5	6.316	0.516	2.31	3.29	4.365	5.98	8.14	11.93
	Cloudy Creek	OK410210-02-0300C	20	5	6.254	0.632	2.827	1.68	4.233	6.01	7.89	11.66
	Cow Creek	OK410210-06-0350G	19	1	8.077	0.538	2.347	3.56	6.28	8.37	9.49	11.23
	Cypress Creek	OK410210-01-0070G	18	3	6.991	0.455	1.929	4.49	5.488	6.415	8.938	10.09
	Delaware Creek	OK410400-03-0240M	15	5	7.983	0.713	2.763	2.88	5.94	8.28	10.67	12.2
	East Fork Glover River	OK410210-09-0010G	18	3	7.393	0.675	2.862	3.06	5.168	6.795	10.093	11.94
	Goose Creek	OK410400-03-0490G	15	6	10.86	3.37	13.04	1.38	6.71	7.91	10.18	56.8
	Horse Creek	OK410400-01-0040G	19	5	7.285	0.598	2.607	3.95	5.18	6.83	8.14	14.14
	Island Bayou	OK410700-00-0040G	15	5	8.055	0.748	2.895	2.07	5.99	7.24	10.51	12.57
	Leader Creek	OK410400-03-0370B	15	6	7.58	1.43	5.53	0.33	5.14	7.02	9.02	24.6
	Lick Creek	OK410400-01-0130G	9	5	5.6	1.07	3.2	2.06	3.14	3.96	9.1	10.58

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
DO Saturation	Little West Blue Creek	OK410600-02-0100C	5	3	9.546	0.323	0.722	8.59	8.81	9.69	10.21	10.23
	Lukfata Creek	OK410210-07-0010G	16	2	5.934	0.773	3.091	1.56	3.475	5.3	8.79	12.3
	McGee Creek	OK410400-07-0010C	14	6	9.089	0.443	1.656	6.47	7.553	9.18	10.78	11.99
	Mineral Bayou	OK410600-01-0300G	18	5	7.079	0.607	2.576	3.8	5.33	6.34	8.583	12.64
	North Boggy Creek	OK410400-08-0010M	18	6	7.092	0.796	3.376	1.89	4.94	6.25	9.023	13.85
	Norwood Creek	OK410100-01-0050H	17	1	5.354	0.728	3.003	2	2.4	4.12	9.005	9.87
	One Creek	OK410300-03-0060F	20	6	6.249	0.679	3.035	1.84	4	5.905	9.22	13.06
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	6.397	0.758	2.937	2.23	4.48	5.54	8.96	11.43
	Rock Creek (Pushmataha)	OK410300-02-0190G	20	5	5.758	0.815	3.646	0.56	2.828	5.47	8.435	12.78
	Sand Creek	OK410700-00-0260G	18	4	8.311	0.688	2.918	2.48	6.263	8.34	10.448	13.14
	Sandy Creek	OK410600-02-0020G	18	4	7.431	0.682	2.893	0.53	6.203	7.37	8.898	12.33
	Sulphur Creek	OK410600-01-0030G	12	6	6.123	0.987	3.418	2.06	3.568	5.335	8.755	13.68
	Tenmile Creek	OK410300-03-0270C	16	4	7.67	1.81	7.24	2.92	3.46	5.42	9.8	32.5
	Terrapin Creek	OK410210-02-0150G	19	4	8.441	0.452	1.972	5.66	7.22	8.01	9.33	12.16
	Waterhole Creek	OK410100-01-0340D	17	1	4.942	0.529	2.183	2.27	3.5	4.55	6.3	11.41
	West Fork Glover River	OK410210-08-0010M	19	3	7.804	0.694	3.025	3.33	5.95	8.01	10.53	13.65
	Whitegrass Creek	OK410400-01-0210G	10	5	5.71	1.39	4.39	1.3	2.43	4.86	7.4	16.06
DO % Saturation	Beech Creek	OK410210-06-0320G	18	1	92.64	3.73	15.83	48.2	82.6	98.35	101.58	114
	Big Cedar Creek	OK410310-02-0100D	18	2	80.45	2.79	11.85	54.3	74.98	82.15	88.08	104.6
	Big Eagle Creek	OK410210-06-0160L	17	1	81.66	4.73	19.49	40.7	75.2	91.3	95.85	99.9
	Billy Creek	OK410310-02-0070C	16	1	55.07	4.79	19.16	22.4	44	52.6	66.35	92.4
	Bird Creek	OK410300-01-0100C	16	3	94.42	8.06	32.25	49.7	72.6	88.25	127.35	159
	Black Fork of Little River	OK410210-03-0020C	21	4	73.38	4.81	22.03	37.4	58.45	77.4	94.55	111.4
	Bokchito Creek	OK410600-01-0090G	18	5	78.11	4.21	17.85	48.4	66.98	81.95	89.2	118.5
	Buck Creek	OK410310-03-0420C	14	4	69.54	3.35	12.52	49.7	58.85	68.65	81.43	91.6

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Buffalo Creek	OK410210-06-0020G	17	0	94.13	3.59	14.81	55.1	86.75	95.5	99.85	122.8
	Caddo Creek	OK410600-01-0140G	18	3	104.8	43.3	183.8	12	38.4	64	83.5	831
	Caney Boggy Creek	OK410400-06-0120G	17	5	68.34	5.44	22.45	11.9	50.35	74.6	85.85	96.7
	Caney Creek (lower)	OK410400-02-0200G	16	6	56.04	6.03	24.11	10.78	41.03	59.25	75.6	88.1
	Caney Creek (upper)	OK410400-03-0020C	16	6	84.63	4.37	17.47	60	64.58	91.75	99.48	108.7
	Cedar Creek	OK410300-03-0020M	20	5	66.12	3.25	14.51	41.5	53.75	65	72.68	92.4
	Cloudy Creek	OK410210-02-0300C	20	5	66.78	5.53	24.75	21.2	51.43	62.4	91.8	103.1
	Cow Creek	OK410210-06-0350G	19	1	84.22	3.94	17.19	43.4	76.6	89.9	97.5	102.9
	Cypress Creek	OK410210-01-0070G	18	3	73.51	5.45	23.11	1.49	65.95	74.15	82.85	116.7
	Delaware Creek	OK410400-03-0240M	15	5	74.57	7.06	27.34	9.1	53.5	86.7	94.6	101.6
	East Fork Glover River	OK410210-09-0010G	18	3	73.03	4.82	20.45	35.1	63.43	75.5	89.63	103.1
	Goose Creek	OK410400-03-0490G	15	6	71.2	8.35	32.36	4.68	52	82.6	93.8	116.8
	Horse Creek	OK410400-01-0040G	19	5	75.17	4.24	18.49	45.7	57.3	74	85.5	112
	Island Bayou	OK410700-00-0040G	15	5	81.02	7.48	28.98	26	60.9	76	97.8	143.5
	Leader Creek	OK410400-03-0370B	15	6	62.4	8.03	31.1	0.7	49.2	67.4	88	96.6
	Lick Creek	OK410400-01-0130G	8	6	58.8	13	36.7	24.6	30.8	44.7	86.4	130
	Little West Blue Creek	OK410600-02-0100C	5	3	110	3.78	8.45	99.1	102.3	108.9	118.4	119.7
	Lukfata Creek	OK410210-07-0010G	16	2	60.72	5.77	23.1	22	40.1	64.2	75.63	104.6
	McGee Creek	OK410400-07-0010C	14	6	93.26	1.97	7.36	83.5	87.1	92.85	98.73	107.4
	Mineral Bayou	OK410600-01-0300G	18	5	106.6	31.2	132.2	45.8	61.6	78.9	88.7	632
	North Boggy Creek	OK410400-08-0010M	18	6	72.75	6.02	25.54	22.6	59.98	69	88.68	121.4
	Norwood Creek	OK410100-01-0050H	17	1	54.54	5.88	24.23	22.5	27.1	52.7	80.55	87.4
	One Creek	OK410300-03-0060F	20	6	63.32	4.97	22.25	18.8	49.28	66.05	84.03	99.9
	Rock Creek (McCurtain)	OK410200-03-0010G	16	0	67.46	5.51	22.05	27.4	51.08	67.2	87.45	109
	Rock Creek (Pushmataha)	OK410300-02-0190G	20	5	60.05	7.76	34.69	0.1	35.03	57.2	86	118.3

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Sand Creek	OK410700-00-0260G	18	4	87.78	6	25.47	30.2	72.18	86.55	104.25	128.4
	Sandy Creek	OK410600-02-0020G	18	4	82.68	6.18	26.22	5.5	67.78	91.2	97.75	112.3
	Sulphur Creek	OK410600-01-0030G	12	6	57.25	7.62	26.4	19.5	40.25	59.3	72.68	114
	Tenmile Creek	OK410300-03-0270C	16	4	57.7	5.11	20.43	30.6	37.38	58.15	74	92.1
	Terrapin Creek	OK410210-02-0150G	19	4	95.97	2.72	11.87	70	87.2	98.9	104.5	110.8
	Waterhole Creek	OK410100-01-0340D	17	1	61.22	5.55	22.9	27.9	46.7	58.1	72.4	110.4
	West Fork Glover River	OK410210-08-0010M	19	3	83.56	4.9	21.37	43.3	79.7	92	100.1	108.3
	Whitegrass Creek	OK410400-01-0210G	9	6	44.04	7.79	23.36	16	23.65	45.1	66	77.9
Hardness (mg/L)	Beech Creek	OK410210-06-0320G	18	1	16.58	3.63	15.41	6.2	7.95	10.65	23	71
	Big Cedar Creek	OK410310-02-0100D	18	2	22.95	5.5	23.32	6.4	10.48	13.75	25.28	101
	Big Eagle Creek	OK410210-06-0160L	17	1	15.31	3.76	15.52	5.1	7.05	8.5	16.95	61
	Billy Creek	OK410310-02-0070C	16	1	41.13	7.38	29.5	6.8	17.83	37.65	67.25	111
	Bird Creek	OK410300-01-0100C	15	4	184.9	23.1	89.6	8	115	199	238	326
	Black Fork of Little River	OK410210-03-0020C	21	4	25.4	6.38	29.26	4.5	10.85	17.8	28.5	143
	Bokchito Creek	OK410600-01-0090G	19	4	244.6	25.5	111.3	44	184	232	258	625
	Buck Creek	OK410310-03-0420C	14	4	44.34	8.11	30.36	3	25.33	36.85	54.75	110
	Buffalo Creek	OK410210-06-0020G	17	0	19.74	5.79	23.89	9.3	12.5	14.2	16.1	112
	Caddo Creek	OK410600-01-0140G	18	3	260.7	30.4	128.8	135	187	241.5	308.5	710
	Caney Boggy Creek	OK410400-06-0120G	18	4	169	22.4	95.1	60	106.5	152	201.3	440
	Caney Creek (lower)	OK410400-02-0200G	18	4	240.9	38.6	164	94	133.5	165.5	311.5	630
	Caney Creek (upper)	OK410400-03-0020C	16	6	218.5	15.6	62.5	80	182.5	221.5	263.8	334
	Cedar Creek	OK410300-03-0020M	19	6	32.27	5.07	22.1	5.8	18	30	38	108
	Cloudy Creek	OK410210-02-0300C	19	6	24.4	2.84	12.36	13.2	15.3	21	29.8	60.1
	Cow Creek	OK410210-06-0350G	19	1	29.9	13.8	60.2	2.5	7.4	11.6	22.1	265
	Cypress Creek	OK410210-01-0070G	19	2	19.19	2.88	12.57	1.3	12	15.3	24.3	57

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Delaware Creek	OK410400-03-0240M	16	4	281.3	23.2	92.7	150	178.3	285	353.8	410
	East Fork Glover River	OK410210-09-0010G	18	3	13.63	1.98	8.4	7	8.38	11.45	14.75	43
	Goose Creek	OK410400-03-0490G	14	7	260.6	41.8	156.3	96	141.5	222.5	361	610
	Horse Creek	OK410400-01-0040G	19	5	168.8	12.3	53.7	91	123	165	217	291
	Island Bayou	OK410700-00-0040G	16	4	337.3	41.2	164.8	41.4	208	298	515.5	590
	Leader Creek	OK410400-03-0370B	16	5	144.3	26.2	105	16	76	127.5	198.8	455
	Lick Creek	OK410400-01-0130G	11	3	193.1	29.8	98.9	104	116	174	220	445
	Little West Blue Creek	OK410600-02-0100C	6	2	353.7	17.1	41.8	300	319.5	345.5	401.3	405
	Lukfata Creek	OK410210-07-0010G	14	4	147.1	19.6	73.3	55	107.8	139.5	160.8	361
	McGee Creek	OK410400-07-0010C	16	4	31.26	5.09	20.37	14.2	21.3	24.05	33.75	100
	Mineral Bayou	OK410600-01-0300G	19	4	213.8	20.8	90.5	96	120	210	270	395
	North Boggy Creek	OK410400-08-0010M	19	5	724.3	99.5	433.6	42	260	885	1050	1525
	Norwood Creek	OK410100-01-0050H	17	1	152.2	18.6	76.9	64	97	125	210.5	362
	One Creek	OK410300-03-0060F	19	7	27.47	2.88	12.54	9.4	16.8	23.5	34	62.5
	Rock Creek (McCurtain)	OK410200-03-0010G	16	0	25.32	6.46	25.85	9.5	13.35	17.35	25.53	116
	Rock Creek (Pushmataha)	OK410300-02-0190G	20	5	25.29	1.9	8.48	12.2	18.18	24.2	31.55	47
	Sand Creek	OK410700-00-0260G	20	2	176.4	24	107.4	70	115	144	176.5	525
	Sandy Creek	OK410600-02-0020G	19	3	186.3	32.6	142.3	63	100	150	240	600
	Sulphur Creek	OK410600-01-0030G	13	5	233.5	29.6	106.7	17.1	185.5	227	281	440
	Tenmile Creek	OK410300-03-0270C	16	4	59.1	11.3	45.2	16.7	31	55.4	67.8	210
	Terrapin Creek	OK410210-02-0150G	19	4	16.04	2.94	12.81	7	8.5	11.7	19	61
	Waterhole Creek	OK410100-01-0340D	17	1	264.1	25.7	106.1	156	199	242	290	563
	West Fork Glover River	OK410210-08-0010M	19	3	19.24	2.89	12.59	5.2	11.1	14.7	23.8	60
	Whitegrass Creek	OK410400-01-0210G	12	3	177.2	18.9	65.6	95	128	155.5	237.8	310
Nitrate (mg/L)	Beech Creek	OK410210-06-0320G	17	2	0.047	0.02	0.0842	0.02	0.02	0.02	0.025	0.36

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Big Cedar Creek	OK410310-02-0100D	17	3	0.04	0.014	0.0559	0.02	0.02	0.02	0.035	0.25
	Big Eagle Creek	OK410210-06-0160L	16	2	0.144	0.069	0.2756	0.02	0.04	0.06	0.12	1.16
	Billy Creek	OK410310-02-0070C	15	2	0.061	0.022	0.0855	0.02	0.02	0.02	0.04	0.31
	Bird Creek	OK410300-01-0100C	15	4	0.277	0.228	0.882	0.02	0.02	0.02	0.12	3.46
	Black Fork of Little River	OK410210-03-0020C	20	5	0.122	0.05	0.2244	0.02	0.02	0.02	0.1275	0.94
	Bokchito Creek	OK410600-01-0090G	19	4	0.214	0.117	0.51	0.02	0.02	0.03	0.08	1.76
	Buck Creek	OK410310-03-0420C	14	4	0.112	0.074	0.277	0.02	0.02	0.02	0.0525	1.06
	Buffalo Creek	OK410210-06-0020G	16	1	0.086	0.03	0.1183	0.02	0.02	0.025	0.1075	0.37
	Caddo Creek	OK410600-01-0140G	18	3	0.199	0.121	0.515	0.02	0.02	0.02	0.025	1.94
	Caney Boggy Creek	OK410400-06-0120G	17	5	0.072	0.028	0.1167	0.02	0.02	0.02	0.09	0.5
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.184	0.061	0.2589	0.02	0.04	0.095	0.2275	1.11
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.038	0.011	0.0442	0.02	0.02	0.02	0.025	0.18
	Cedar Creek	OK410300-03-0020M	19	6	0.196	0.091	0.3976	0.02	0.02	0.02	0.2	1.59
	Cloudy Creek	OK410210-02-0300C	19	6	0.087	0.029	0.1242	0.02	0.02	0.02	0.14	0.5
	Cow Creek	OK410210-06-0350G	18	2	0.046	0.015	0.0635	0.02	0.02	0.02	0.05	0.29
	Cypress Creek	OK410210-01-0070G	18	3	0.401	0.283	1.201	0.02	0.02	0.02	0.085	5.06
	Delaware Creek	OK410400-03-0240M	16	4	0.331	0.201	0.803	0.02	0.02	0.02	0.165	3.08
	East Fork Glover River	OK410210-09-0010G	17	4	0.093	0.036	0.1481	0.02	0.02	0.03	0.1	0.59
	Goose Creek	OK410400-03-0490G	13	8	0.783	0.455	1.642	0.02	0.02	0.07	0.41	5.37
	Horse Creek	OK410400-01-0040G	18	6	1.921	0.443	1.877	0.02	0.358	1.525	3.27	6.31
	Island Bayou	OK410700-00-0040G	16	4	0.837	0.312	1.249	0.02	0.033	0.295	1.213	4.76
	Leader Creek	OK410400-03-0370B	15	6	0.092	0.034	0.1314	0.02	0.02	0.02	0.13	0.49
	Lick Creek	OK410400-01-0130G	10	4	0.385	0.169	0.535	0.03	0.048	0.135	0.618	1.45
	Little West Blue Creek	OK410600-02-0100C	6	2	0.325	0.017	0.0404	0.27	0.293	0.325	0.3525	0.39
	Lukfata Creek	OK410210-07-0010G	15	3	0.263	0.128	0.495	0.02	0.02	0.03	0.25	1.71

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Nitrite (mg/L)	McGee Creek	OK410400-07-0010C	16	4	0.092	0.03	0.1205	0.02	0.02	0.03	0.095	0.39
	Mineral Bayou	OK410600-01-0300G	19	4	0.112	0.033	0.1427	0.02	0.02	0.02	0.18	0.46
	North Boggy Creek	OK410400-08-0010M	19	5	0.048	0.02	0.086	0.02	0.02	0.02	0.02	0.39
	Norwood Creek	OK410100-01-0050H	16	2	0.127	0.028	0.1135	0.02	0.05	0.085	0.1925	0.36
	One Creek	OK410300-03-0060F	19	7	0.094	0.038	0.167	0.02	0.02	0.04	0.08	0.74
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.246	0.184	0.714	0.02	0.02	0.06	0.09	2.82
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.167	0.085	0.3708	0.02	0.02	0.02	0.05	1.34
	Sand Creek	OK410700-00-0260G	19	3	0.804	0.105	0.458	0.02	0.52	0.78	1.1	1.7
	Sandy Creek	OK410600-02-0020G	19	3	0.301	0.196	0.856	0.02	0.02	0.02	0.08	3.6
	Sulphur Creek	OK410600-01-0030G	13	5	0.175	0.113	0.407	0.02	0.02	0.03	0.135	1.51
	Tenmile Creek	OK410300-03-0270C	16	4	0.45	0.318	1.27	0.02	0.02	0.035	0.115	5.05
	Terrapin Creek	OK410210-02-0150G	19	4	0.072	0.019	0.0842	0.02	0.02	0.02	0.09	0.31
	Waterhole Creek	OK410100-01-0340D	16	2	0.088	0.036	0.1436	0.02	0.02	0.02	0.1125	0.57
	West Fork Glover River	OK410210-08-0010M	18	4	0.161	0.052	0.2202	0.02	0.02	0.055	0.2125	0.7
	Whitegrass Creek	OK410400-01-0210G	11	4	0.2	0.119	0.394	0.02	0.02	0.03	0.25	1.35
Nitrate (mg/L)	Beech Creek	OK410210-06-0320G	17	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Big Cedar Creek	OK410310-02-0100D	17	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Big Eagle Creek	OK410210-06-0160L	16	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Billy Creek	OK410310-02-0070C	15	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Bird Creek	OK410300-01-0100C	15	4	0.035	0.015	0.0594	0.02	0.02	0.02	0.02	0.25
	Black Fork of Little River	OK410210-03-0020C	20	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Bokchito Creek	OK410600-01-0090G	19	4	0.021	0.001	0.0046	0.02	0.02	0.02	0.02	0.04
	Buck Creek	OK410310-03-0420C	14	4	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Buffalo Creek	OK410210-06-0020G	16	1	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Caddo Creek	OK410600-01-0140G	18	3	0.022	0.002	0.0094	0.02	0.02	0.02	0.02	0.06

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Caney Boggy Creek	OK410400-06-0120G	17	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.026	0.005	0.0198	0.02	0.02	0.02	0.02	0.1
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.021	6E-04	0.0024	0.02	0.02	0.02	0.02	0.03
	Cedar Creek	OK410300-03-0020M	19	6	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Cloudy Creek	OK410210-02-0300C	19	6	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Cow Creek	OK410210-06-0350G	18	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Cypress Creek	OK410210-01-0070G	18	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Delaware Creek	OK410400-03-0240M	16	4	0.046	0.016	0.0634	0.02	0.02	0.02	0.02	0.22
	East Fork Glover River	OK410210-09-0010G	17	4	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Goose Creek	OK410400-03-0490G	13	8	0.04	0.013	0.0464	0.02	0.02	0.02	0.03	0.17
	Horse Creek	OK410400-01-0040G	18	6	0.021	0.001	0.0047	0.02	0.02	0.02	0.02	0.04
	Island Bayou	OK410700-00-0040G	16	4	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Leader Creek	OK410400-03-0370B	15	6	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Lick Creek	OK410400-01-0130G	10	4	0.034	0.01	0.031	0.02	0.02	0.02	0.0325	0.11
	Little West Blue Creek	OK410600-02-0100C	6	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Lukfata Creek	OK410210-07-0010G	15	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	McGee Creek	OK410400-07-0010C	16	4	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Mineral Bayou	OK410600-01-0300G	19	4	0.023	0.003	0.0116	0.02	0.02	0.02	0.02	0.07
	North Boggy Creek	OK410400-08-0010M	19	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Norwood Creek	OK410100-01-0050H	16	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	One Creek	OK410300-03-0060F	19	7	0.024	0.004	0.0161	0.02	0.02	0.02	0.02	0.09
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Sand Creek	OK410700-00-0260G	19	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Sandy Creek	OK410600-02-0020G	19	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Sulphur Creek	OK410600-01-0030G	13	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Tenmile Creek	OK410300-03-0270C	16	4	0.031	0.011	0.045	0.02	0.02	0.02	0.02	0.2
	Terrapin Creek	OK410210-02-0150G	19	4	0.021	5E-04	0.0023	0.02	0.02	0.02	0.02	0.03
	Waterhole Creek	OK410100-01-0340D	16	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	West Fork Glover River	OK410210-08-0010M	18	4	0.02	0	0	0.02	0.02	0.02	0.02	0.02
	Whitegrass Creek	OK410400-01-0210G	11	4	0.048	0.028	0.0935	0.02	0.02	0.02	0.02	0.33
TKN (mg/L)	Beech Creek	OK410210-06-0320G	17	2	0.272	0.04	0.1657	0.11	0.125	0.18	0.43	0.65
	Big Cedar Creek	OK410310-02-0100D	17	3	0.374	0.093	0.3846	0.11	0.125	0.21	0.515	1.45
	Big Eagle Creek	OK410210-06-0160L	16	2	0.194	0.027	0.1092	0.11	0.11	0.135	0.27	0.48
	Billy Creek	OK410310-02-0070C	15	2	0.441	0.072	0.2806	0.17	0.21	0.35	0.74	1.07
	Bird Creek	OK410300-01-0100C	15	4	0.562	0.08	0.3078	0.11	0.33	0.42	0.8	1.13
	Black Fork of Little River	OK410210-03-0020C	20	5	0.415	0.061	0.2716	0.11	0.195	0.285	0.675	1.06
	Bokchito Creek	OK410600-01-0090G	19	4	0.419	0.05	0.2171	0.11	0.25	0.38	0.62	0.82
	Buck Creek	OK410310-03-0420C	14	4	0.616	0.061	0.2292	0.29	0.443	0.595	0.79	1.14
	Buffalo Creek	OK410210-06-0020G	16	1	0.475	0.058	0.2308	0.11	0.298	0.48	0.675	0.85
	Caddo Creek	OK410600-01-0140G	18	3	0.753	0.064	0.272	0.45	0.555	0.715	0.895	1.6
	Caney Boggy Creek	OK410400-06-0120G	17	5	0.724	0.085	0.3496	0.11	0.535	0.76	1.005	1.27
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.857	0.084	0.3572	0.33	0.633	0.805	0.9975	1.7
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.579	0.061	0.2524	0.11	0.44	0.59	0.735	0.98
	Cedar Creek	OK410300-03-0020M	19	6	0.588	0.076	0.3306	0.15	0.32	0.45	0.83	1.38
	Cloudy Creek	OK410210-02-0300C	19	6	0.568	0.077	0.3351	0.11	0.34	0.51	0.85	1.41
	Cow Creek	OK410210-06-0350G	18	2	0.33	0.063	0.2659	0.11	0.143	0.21	0.455	0.99
	Cypress Creek	OK410210-01-0070G	18	3	0.453	0.072	0.3057	0.11	0.23	0.325	0.6925	1.04
	Delaware Creek	OK410400-03-0240M	16	4	0.618	0.102	0.406	0.11	0.393	0.555	0.925	1.62
	East Fork Glover River	OK410210-09-0010G	17	4	0.41	0.075	0.3103	0.11	0.125	0.27	0.71	0.991

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Goose Creek	OK410400-03-0490G	13	8	0.763	0.147	0.529	0.11	0.365	0.71	1.165	1.71
	Horse Creek	OK410400-01-0040G	18	6	1.037	0.133	0.564	0.25	0.678	0.875	1.41	2.45
	Island Bayou	OK410700-00-0040G	16	4	0.886	0.046	0.1853	0.56	0.735	0.905	1.04	1.24
	Leader Creek	OK410400-03-0370B	15	6	1.215	0.177	0.685	0.11	0.8	0.98	1.36	2.86
	Lick Creek	OK410400-01-0130G	10	4	1.201	0.148	0.467	0.62	0.833	1.2	1.428	2.09
	Little West Blue Creek	OK410600-02-0100C	6	2	0.13	0.01	0.0245	0.11	0.11	0.125	0.1475	0.17
	Lukfata Creek	OK410210-07-0010G	15	3	0.617	0.089	0.3428	0.11	0.38	0.6	0.8	1.39
	McGee Creek	OK410400-07-0010C	16	4	0.346	0.028	0.1112	0.11	0.313	0.34	0.4325	0.5
	Mineral Bayou	OK410600-01-0300G	19	4	0.452	0.053	0.2313	0.11	0.27	0.47	0.64	0.94
	North Boggy Creek	OK410400-08-0010M	19	5	0.547	0.063	0.2741	0.11	0.42	0.52	0.7	1.19
	Norwood Creek	OK410100-01-0050H	16	2	0.923	0.071	0.2853	0.54	0.68	0.9	1.095	1.62
	One Creek	OK410300-03-0060F	19	7	0.701	0.121	0.527	0.11	0.28	0.56	1	2.12
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.538	0.103	0.4	0.11	0.11	0.45	0.87	1.2
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.677	0.086	0.3746	0.11	0.38	0.51	0.88	1.43
	Sand Creek	OK410700-00-0260G	19	3	0.388	0.04	0.1753	0.11	0.31	0.36	0.5	0.83
	Sandy Creek	OK410600-02-0020G	19	3	0.829	0.296	1.289	0.11	0.27	0.48	0.93	5.88
	Sulphur Creek	OK410600-01-0030G	13	5	1.385	0.473	1.705	0.25	0.53	0.91	1.62	6.76
	Tenmile Creek	OK410300-03-0270C	16	4	0.728	0.059	0.2376	0.26	0.513	0.76	0.8525	1.11
	Terrapin Creek	OK410210-02-0150G	19	4	0.592	0.107	0.467	0.1	0.25	0.46	0.75	1.56
	Waterhole Creek	OK410100-01-0340D	16	2	0.914	0.059	0.237	0.52	0.673	0.905	1.0975	1.31
	West Fork Glover River	OK410210-08-0010M	18	4	0.523	0.069	0.2912	0.11	0.305	0.46	0.68	1.07
	Whitegrass Creek	OK410400-01-0210G	11	4	1.055	0.108	0.357	0.6	0.8	1.05	1.11	1.97
Available N (mg/	Beech Creek	OK410210-06-0320G	17	2	0.084	0.021	0.0867	0.04	0.055	0.055	0.0665	0.395
	Big Cedar Creek	OK410310-02-0100D	17	3	0.076	0.014	0.0594	0.04	0.048	0.055	0.071	0.285
	Big Eagle Creek	OK410210-06-0160L	16	2	0.178	0.069	0.2764	0.055	0.068	0.09	0.155	1.195

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Billy Creek	OK410310-02-0070C	15	2	0.1	0.02	0.0783	0.04	0.055	0.065	0.102	0.33
	Bird Creek	OK410300-01-0100C	15	4	0.349	0.245	0.95	0.04	0.055	0.067	0.185	3.772
	Black Fork of Little River	OK410210-03-0020C	20	5	0.16	0.05	0.2226	0.04	0.055	0.066	0.172	0.975
	Bokchito Creek	OK410600-01-0090G	19	4	0.25	0.117	0.511	0.055	0.055	0.071	0.115	1.8
	Buck Creek	OK410310-03-0420C	14	4	0.153	0.074	0.2773	0.04	0.055	0.059	0.0953	1.095
	Buffalo Creek	OK410210-06-0020G	16	1	0.128	0.029	0.1145	0.055	0.055	0.076	0.1678	0.409
	Caddo Creek	OK410600-01-0140G	18	3	0.285	0.124	0.526	0.04	0.059	0.085	0.119	2.018
	Caney Boggy Creek	OK410400-06-0120G	18	4	0.12	0.026	0.1096	0.04	0.055	0.085	0.1463	0.52
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.297	0.069	0.2945	0.055	0.118	0.214	0.4143	1.242
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.078	0.012	0.0501	0.04	0.055	0.058	0.084	0.245
	Cedar Creek	OK410300-03-0020M	19	6	0.237	0.09	0.3941	0.055	0.055	0.065	0.22	1.634
	Cloudy Creek	OK410210-02-0300C	19	6	0.133	0.028	0.1207	0.04	0.055	0.074	0.17	0.52
	Cow Creek	OK410210-06-0350G	18	2	0.083	0.016	0.0669	0.04	0.054	0.055	0.1033	0.325
	Cypress Creek	OK410210-01-0070G	18	3	0.434	0.283	1.2	0.055	0.055	0.059	0.109	5.095
	Delaware Creek	OK410400-03-0240M	16	4	0.419	0.208	0.832	0.055	0.055	0.09	0.362	3.285
	East Fork Glover River	OK410210-09-0010G	17	4	0.136	0.035	0.1444	0.04	0.058	0.087	0.158	0.625
	Goose Creek	OK410400-03-0490G	14	7	0.803	0.43	1.61	0.055	0.062	0.165	0.505	5.54
	Horse Creek	OK410400-01-0040G	18	6	2.023	0.433	1.836	0.055	0.444	1.555	3.29	6.359
	Island Bayou	OK410700-00-0040G	16	4	0.902	0.313	1.25	0.055	0.072	0.376	1.291	4.827
	Leader Creek	OK410400-03-0370B	16	5	0.172	0.036	0.1433	0.04	0.057	0.129	0.255	0.531
	Lick Creek	OK410400-01-0130G	10	4	0.51	0.155	0.49	0.166	0.196	0.275	0.714	1.47
	Little West Blue Creek	OK410600-02-0100C	6	2	0.365	0.015	0.0377	0.314	0.333	0.368	0.3878	0.426
	Lukfata Creek	OK410210-07-0010G	15	3	0.332	0.124	0.481	0.055	0.064	0.095	0.426	1.73
	McGee Creek	OK410400-07-0010C	16	4	0.129	0.029	0.1178	0.055	0.055	0.068	0.172	0.41
	Mineral Bayou	OK410600-01-0300G	19	4	0.153	0.036	0.1548	0.04	0.055	0.072	0.2	0.526

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Total N (mg/L)	North Boggy Creek	OK410400-08-0010M	19	5	0.092	0.021	0.09	0.04	0.055	0.055	0.108	0.425
	Norwood Creek	OK410100-01-0050H	16	2	0.188	0.031	0.1239	0.05	0.088	0.151	0.3163	0.395
	One Creek	OK410300-03-0060F	19	7	0.146	0.043	0.1883	0.055	0.055	0.098	0.145	0.889
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.3	0.185	0.717	0.055	0.073	0.105	0.153	2.886
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.208	0.084	0.366	0.05	0.055	0.06	0.104	1.376
	Sand Creek	OK410700-00-0260G	19	3	0.869	0.1	0.436	0.067	0.56	0.815	1.12	1.735
	Sandy Creek	OK410600-02-0020G	19	3	0.433	0.21	0.915	0.04	0.055	0.072	0.18	3.635
	Sulphur Creek	OK410600-01-0030G	13	5	0.373	0.169	0.608	0.055	0.067	0.114	0.254	1.84
	Tenmile Creek	OK410300-03-0270C	16	4	0.517	0.317	1.268	0.055	0.055	0.104	0.252	5.101
	Terrapin Creek	OK410210-02-0150G	19	4	0.132	0.026	0.1127	0.04	0.055	0.08	0.185	0.475
	Waterhole Creek	OK410100-01-0340D	16	2	0.157	0.041	0.1649	0.04	0.055	0.065	0.2578	0.59
	West Fork Glover River	OK410210-08-0010M	18	4	0.208	0.05	0.213	0.04	0.065	0.119	0.2573	0.72
	Whitegrass Creek	OK410400-01-0210G	11	4	0.301	0.119	0.394	0.055	0.088	0.166	0.335	1.386
Total P (mg/L)	Beech Creek	OK410210-06-0320G	17	2	0.339	0.046	0.1874	0.15	0.165	0.31	0.49	0.79
	Big Cedar Creek	OK410310-02-0100D	17	3	0.434	0.097	0.4015	0.15	0.165	0.26	0.67	1.49
	Big Eagle Creek	OK410210-06-0160L	16	2	0.359	0.077	0.3093	0.15	0.188	0.25	0.3875	1.39
	Billy Creek	OK410310-02-0070C	15	2	0.523	0.069	0.2661	0.23	0.32	0.45	0.78	1.12
	Bird Creek	OK410300-01-0100C	15	4	0.875	0.291	1.125	0.15	0.42	0.56	0.84	4.84
	Black Fork of Little River	OK410210-03-0020C	20	5	0.556	0.079	0.3525	0.15	0.303	0.46	0.7275	1.62
	Bokchito Creek	OK410600-01-0090G	19	4	0.654	0.139	0.607	0.15	0.3	0.48	0.73	2.45
	Buck Creek	OK410310-03-0420C	14	4	0.749	0.094	0.3502	0.33	0.483	0.665	0.925	1.62
	Buffalo Creek	OK410210-06-0020G	16	1	0.581	0.054	0.2175	0.15	0.445	0.6	0.765	0.89
	Caddo Creek	OK410600-01-0140G	18	3	0.975	0.148	0.629	0.49	0.618	0.775	0.975	2.99
	Caney Boggy Creek	OK410400-06-0120G	18	4	0.833	0.085	0.3591	0.23	0.583	0.835	1.1225	1.37
	Caney Creek (lower)	OK410400-02-0200G	18	4	1.067	0.112	0.474	0.37	0.8	0.92	1.338	2.07

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.637	0.065	0.268	0.15	0.48	0.64	0.865	1.04
	Cedar Creek	OK410300-03-0020M	19	6	0.804	0.119	0.521	0.19	0.43	0.81	1.01	2.44
	Cloudy Creek	OK410210-02-0300C	19	6	0.675	0.077	0.3365	0.15	0.41	0.61	0.91	1.45
	Cow Creek	OK410210-06-0350G	18	2	0.396	0.064	0.2721	0.15	0.183	0.285	0.5475	1.06
	Cypress Creek	OK410210-01-0070G	18	3	0.874	0.32	1.356	0.15	0.313	0.505	0.793	6.12
	Delaware Creek	OK410400-03-0240M	16	4	0.995	0.221	0.885	0.15	0.438	0.79	1.123	3.74
	East Fork Glover River	OK410210-09-0010G	17	4	0.523	0.083	0.3401	0.15	0.25	0.38	0.785	1.2
	Goose Creek	OK410400-03-0490G	14	7	1.528	0.511	1.913	0.15	0.503	0.845	1.6	7.19
	Horse Creek	OK410400-01-0040G	18	6	2.979	0.381	1.615	0.95	1.848	2.4	3.968	6.58
	Island Bayou	OK410700-00-0040G	16	4	1.743	0.331	1.324	0.6	0.903	1.28	2.065	5.85
	Leader Creek	OK410400-03-0370B	16	5	1.344	0.164	0.657	0.18	0.878	1.265	1.6	2.9
	Lick Creek	OK410400-01-0130G	10	4	1.62	0.139	0.439	1.04	1.31	1.42	2.02	2.28
	Little West Blue Creek	OK410600-02-0100C	6	2	0.475	0.017	0.0418	0.4	0.445	0.485	0.505	0.52
	Lukfata Creek	OK410210-07-0010G	15	3	0.899	0.124	0.48	0.15	0.58	0.75	1.25	1.92
	McGee Creek	OK410400-07-0010C	16	4	0.458	0.047	0.1875	0.15	0.365	0.405	0.595	0.82
	Mineral Bayou	OK410600-01-0300G	19	4	0.587	0.072	0.3141	0.15	0.33	0.52	0.71	1.4
	North Boggy Creek	OK410400-08-0010M	19	5	0.615	0.063	0.2746	0.15	0.46	0.62	0.78	1.23
	Norwood Creek	OK410100-01-0050H	16	2	1.069	0.089	0.3578	0.61	0.775	1.06	1.2975	2
	One Creek	OK410300-03-0060F	19	7	0.819	0.146	0.636	0.15	0.39	0.62	1.07	2.44
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.804	0.237	0.919	0.15	0.24	0.49	0.95	3.86
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.864	0.134	0.586	0.15	0.49	0.84	1.08	2.79
	Sand Creek	OK410700-00-0260G	19	3	1.212	0.093	0.4038	0.37	0.9	1.23	1.44	2.03
	Sandy Creek	OK410600-02-0020G	19	3	1.15	0.346	1.507	0.15	0.31	0.55	1.11	5.93
	Sulphur Creek	OK410600-01-0030G	13	5	1.581	0.479	1.727	0.43	0.615	0.96	2.015	6.8
	Tenmile Creek	OK410300-03-0270C	16	4	1.209	0.319	1.275	0.3	0.585	0.87	1.165	5.76

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
pH (SU)	Terrapin Creek	OK410210-02-0150G	19	4	0.685	0.111	0.483	0.15	0.33	0.56	0.79	1.84
	Waterhole Creek	OK410100-01-0340D	16	2	1.022	0.062	0.2466	0.63	0.75	1.08	1.25	1.35
	West Fork Glover River	OK410210-08-0010M	18	4	0.704	0.077	0.3263	0.27	0.423	0.665	0.9025	1.43
	Whitegrass Creek	OK410400-01-0210G	11	4	1.304	0.153	0.507	0.84	0.92	1.15	1.61	2.42
Specific Conductance (µS/cm)	Beech Creek	OK410210-06-0320G	18	1	6.633	0.101	0.43	5.94	6.38	6.595	6.983	7.4
	Big Cedar Creek	OK410310-02-0100D	18	2	6.394	0.118	0.5	5.61	6.06	6.31	6.705	7.43
	Big Eagle Creek	OK410210-06-0160L	17	1	6.232	0.073	0.3001	5.76	6.015	6.24	6.445	6.89
	Billy Creek	OK410310-02-0070C	16	1	6.387	0.1	0.399	5.69	6.218	6.36	6.6375	7.09
	Bird Creek	OK410300-01-0100C	16	3	7.831	0.088	0.3538	7.24	7.565	7.715	8.1375	8.49
	Black Fork of Little River	OK410210-03-0020C	21	4	6.346	0.073	0.3331	5.3	6.15	6.36	6.57	6.87
	Bokchito Creek	OK410600-01-0090G	20	3	7.568	0.058	0.2604	7.12	7.375	7.58	7.7575	8.07
	Buck Creek	OK410310-03-0420C	15	3	6.978	0.121	0.468	6.17	6.78	6.98	7.21	8.27
	Buffalo Creek	OK410210-06-0020G	17	0	6.642	0.143	0.588	5.61	6.245	6.67	6.935	8.06
	Caddo Creek	OK410600-01-0140G	19	2	7.384	0.079	0.3447	6.78	7.12	7.38	7.58	8.05
	Caney Boggy Creek	OK410400-06-0120G	19	3	7.306	0.06	0.2628	6.8	7.07	7.34	7.52	7.78
	Caney Creek (lower)	OK410400-02-0200G	19	3	6.935	0.105	0.456	6.07	6.62	6.97	7.34	7.81
	Caney Creek (upper)	OK410400-03-0020C	16	6	7.854	0.075	0.2997	7.26	7.618	7.885	8.1225	8.22
	Cedar Creek	OK410300-03-0020M	20	5	6.611	0.066	0.2965	6.15	6.453	6.54	6.785	7.44
	Cloudy Creek	OK410210-02-0300C	20	5	6.653	0.107	0.479	6.02	6.298	6.62	6.93	7.98
	Cow Creek	OK410210-06-0350G	19	1	6.299	0.117	0.512	5.13	6.09	6.34	6.57	7.2
	Cypress Creek	OK410210-01-0070G	19	2	6.78	0.112	0.488	6.1	6.56	6.74	6.92	8.22
	Delaware Creek	OK410400-03-0240M	16	4	8.015	0.071	0.2851	7.46	7.84	8.06	8.24	8.42
	East Fork Glover River	OK410210-09-0010G	18	3	6.582	0.042	0.1778	6.3	6.493	6.55	6.68	7.02
	Goose Creek	OK410400-03-0490G	14	7	8.026	0.145	0.541	7.43	7.69	7.95	8.208	9.63
	Horse Creek	OK410400-01-0040G	20	4	7.426	0.073	0.3279	6.7	7.293	7.42	7.5425	8.11

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
OrthoP (mg/L)	Island Bayou	OK410700-00-0040G	17	3	7.562	0.094	0.3863	7.04	7.245	7.51	7.78	8.47
	Leader Creek	OK410400-03-0370B	17	4	7.53	0.077	0.3191	6.88	7.38	7.5	7.685	8.26
	Lick Creek	OK410400-01-0130G	11	3	7.028	0.119	0.395	6.19	6.85	7.17	7.36	7.37
	Little West Blue Creek	OK410600-02-0100C	7	1	7.546	0.089	0.2352	7.12	7.52	7.55	7.58	7.93
	Lukfata Creek	OK410210-07-0010G	16	2	7.191	0.099	0.3944	6.14	7.018	7.185	7.5175	7.7
	McGee Creek	OK410400-07-0010C	16	4	7.306	0.091	0.3654	6.61	7.148	7.31	7.56	8.04
	Mineral Bayou	OK410600-01-0300G	18	5	7.843	0.074	0.3117	6.98	7.738	7.825	8.0875	8.41
	North Boggy Creek	OK410400-08-0010M	18	6	7.492	0.089	0.3773	6.47	7.218	7.56	7.8025	7.94
	Norwood Creek	OK410100-01-0050H	17	1	7.077	0.062	0.2542	6.49	6.915	7.12	7.255	7.47
	One Creek	OK410300-03-0060F	20	6	6.714	0.063	0.2805	6.1	6.523	6.685	6.9375	7.23
	Rock Creek (McCurtain)	OK410200-03-0010G	16	0	6.496	0.1	0.3995	6.05	6.195	6.41	6.66	7.59
	Rock Creek (Pushmataha)	OK410300-02-0190G	20	5	6.655	0.097	0.433	5.55	6.46	6.645	7.0675	7.25
	Sand Creek	OK410700-00-0260G	18	4	7.866	0.054	0.2284	7.48	7.655	7.845	8.0675	8.25
	Sandy Creek	OK410600-02-0020G	19	3	7.683	0.11	0.478	6.72	7.51	7.71	8	8.56
	Sulphur Creek	OK410600-01-0030G	14	4	7.395	0.162	0.604	6.5	6.938	7.47	7.893	8.27
	Tenmile Creek	OK410300-03-0270C	17	3	12.04	5.37	22.15	6.1	6.45	6.75	6.94	98
	Terrapin Creek	OK410210-02-0150G	20	3	6.952	0.059	0.2635	6.25	6.813	6.96	7.0525	7.53
	Waterhole Creek	OK410100-01-0340D	17	1	7.579	0.084	0.3472	6.67	7.4	7.59	7.845	8.15
	West Fork Glover River	OK410210-08-0010M	19	3	6.88	0.069	0.3023	6.03	6.8	6.88	7.02	7.47
	Whitegrass Creek	OK410400-01-0210G	12	3	7.182	0.169	0.585	6.32	6.825	7.035	7.585	8.49

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Black Fork of Little River	OK410210-03-0020C	20	5	0.006	3E-04	0.0014	0.005	0.005	0.005	0.005	0.009
	Bokchito Creek	OK410600-01-0090G	19	4	0.009	0.001	0.0058	0.005	0.005	0.005	0.016	0.021
	Buck Creek	OK410310-03-0420C	14	4	0.008	0.001	0.0053	0.005	0.005	0.007	0.0093	0.025
	Buffalo Creek	OK410210-06-0020G	16	1	0.012	0.003	0.0137	0.005	0.005	0.007	0.0133	0.06
	Caddo Creek	OK410600-01-0140G	18	3	0.017	0.006	0.0236	0.005	0.005	0.009	0.0163	0.102
	Caney Boggy Creek	OK410400-06-0120G	18	4	0.019	0.004	0.0179	0.005	0.008	0.015	0.0225	0.08
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.041	0.012	0.0487	0.007	0.024	0.03	0.0405	0.23
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.015	0.003	0.012	0.005	0.007	0.01	0.0205	0.052
	Cedar Creek	OK410300-03-0020M	19	6	0.011	0.003	0.0118	0.005	0.005	0.007	0.009	0.052
	Cloudy Creek	OK410210-02-0300C	19	6	0.006	6E-04	0.0026	0.005	0.005	0.005	0.008	0.013
	Cow Creek	OK410210-06-0350G	18	2	0.006	4E-04	0.0018	0.005	0.005	0.005	0.0063	0.011
	Cypress Creek	OK410210-01-0070G	18	3	0.005	8E-05	0.0003	0.005	0.005	0.005	0.005	0.006
	Delaware Creek	OK410400-03-0240M	16	4	0.04	0.009	0.0344	0.007	0.012	0.03	0.061	0.124
	East Fork Glover River	OK410210-09-0010G	17	4	0.006	6E-04	0.0026	0.005	0.005	0.005	0.006	0.015
	Goose Creek	OK410400-03-0490G	14	7	0.052	0.01	0.0384	0.008	0.026	0.047	0.0663	0.157
	Horse Creek	OK410400-01-0040G	18	6	0.125	0.02	0.0828	0.014	0.056	0.108	0.172	0.308
	Island Bayou	OK410700-00-0040G	15	5	0.324	0.107	0.415	0.008	0.037	0.11	0.462	1.087
	Leader Creek	OK410400-03-0370B	16	5	0.069	0.011	0.0427	0.014	0.034	0.069	0.0995	0.156
	Lick Creek	OK410400-01-0130G	10	4	0.142	0.083	0.263	0.026	0.034	0.042	0.0985	0.87
	Little West Blue Creek	OK410600-02-0100C	6	2	0.014	0.004	0.0093	0.005	0.005	0.011	0.0243	0.025
	Lukfata Creek	OK410210-07-0010G	15	3	0.023	0.004	0.0157	0.005	0.01	0.016	0.035	0.058
	McGee Creek	OK410400-07-0010C	16	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005
	Mineral Bayou	OK410600-01-0300G	19	4	0.017	0.004	0.0172	0.005	0.007	0.011	0.017	0.08
	North Boggy Creek	OK410400-08-0010M	18	6	0.039	0.006	0.0241	0.005	0.022	0.034	0.0563	0.091
	Norwood Creek	OK410100-01-0050H	16	2	0.059	0.008	0.0315	0.022	0.038	0.051	0.0735	0.143

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Total P (mg/L)	One Creek	OK410300-03-0060F	19	7	0.056	0.029	0.1249	0.005	0.005	0.014	0.025	0.482
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.006	3E-04	0.0011	0.005	0.005	0.005	0.006	0.009
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.013	0.005	0.0199	0.005	0.005	0.009	0.01	0.094
	Sand Creek	OK410700-00-0260G	19	3	0.011	0.002	0.0073	0.005	0.007	0.008	0.014	0.032
	Sandy Creek	OK410600-02-0020G	19	3	0.025	0.01	0.0417	0.005	0.005	0.011	0.019	0.177
	Sulphur Creek	OK410600-01-0030G	13	5	0.02	0.005	0.0186	0.005	0.007	0.014	0.027	0.059
	Tenmile Creek	OK410300-03-0270C	16	4	0.03	0.006	0.0223	0.005	0.013	0.022	0.049	0.08
	Terrapin Creek	OK410210-02-0150G	19	4	0.006	3E-04	0.0013	0.005	0.005	0.005	0.005	0.009
	Waterhole Creek	OK410100-01-0340D	16	2	0.073	0.016	0.0641	0.017	0.026	0.058	0.084	0.251
	West Fork Glover River	OK410210-08-0010M	18	4	0.009	0.001	0.0055	0.005	0.005	0.006	0.0128	0.023
	Whitegrass Creek	OK410400-01-0210G	11	4	0.032	0.006	0.019	0.009	0.014	0.031	0.045	0.066
Total N (mg/L)	Beech Creek	OK410210-06-0320G	17	2	0.015	0.003	0.0117	0.005	0.005	0.011	0.0215	0.047
	Big Cedar Creek	OK410310-02-0100D	17	3	0.022	0.003	0.0122	0.008	0.011	0.018	0.0315	0.046
	Big Eagle Creek	OK410210-06-0160L	16	2	0.009	0.002	0.0061	0.005	0.005	0.005	0.0098	0.025
	Billy Creek	OK410310-02-0070C	15	2	0.03	0.005	0.0187	0.006	0.013	0.026	0.042	0.076
	Bird Creek	OK410300-01-0100C	15	4	0.028	0.006	0.022	0.005	0.012	0.026	0.036	0.082
	Black Fork of Little River	OK410210-03-0020C	20	5	0.041	0.022	0.0961	0.005	0.013	0.017	0.0295	0.447
	Bokchito Creek	OK410600-01-0090G	19	4	0.036	0.012	0.0521	0.005	0.012	0.021	0.035	0.242
	Buck Creek	OK410310-03-0420C	14	4	0.031	0.005	0.0178	0.006	0.016	0.028	0.0423	0.071
	Buffalo Creek	OK410210-06-0020G	16	1	0.035	0.005	0.021	0.005	0.015	0.039	0.0493	0.077
	Caddo Creek	OK410600-01-0140G	18	3	0.047	0.008	0.0343	0.024	0.028	0.037	0.0513	0.175
	Caney Boggy Creek	OK410400-06-0120G	18	4	0.055	0.011	0.0452	0.016	0.029	0.042	0.0618	0.212
	Caney Creek (lower)	OK410400-02-0200G	18	4	0.062	0.007	0.0285	0.024	0.038	0.063	0.0758	0.127
	Caney Creek (upper)	OK410400-03-0020C	17	5	0.038	0.005	0.0217	0.005	0.026	0.033	0.05	0.079
	Cedar Creek	OK410300-03-0020M	19	6	0.031	0.006	0.0271	0.008	0.014	0.025	0.036	0.129

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Cloudy Creek	OK410210-02-0300C	19	6	0.049	0.026	0.1131	0.005	0.016	0.022	0.034	0.513
	Cow Creek	OK410210-06-0350G	18	2	0.016	0.003	0.0111	0.005	0.005	0.014	0.0223	0.047
	Cypress Creek	OK410210-01-0070G	18	3	0.02	0.003	0.0139	0.005	0.009	0.014	0.0323	0.05
	Delaware Creek	OK410400-03-0240M	16	4	0.067	0.012	0.0459	0.016	0.031	0.056	0.0903	0.194
	East Fork Glover River	OK410210-09-0010G	17	4	0.024	0.004	0.0146	0.007	0.013	0.019	0.033	0.061
	Goose Creek	OK410400-03-0490G	14	7	0.094	0.014	0.0526	0.035	0.065	0.076	0.1148	0.208
	Horse Creek	OK410400-01-0040G	18	6	0.292	0.094	0.3995	0.05	0.131	0.194	0.2908	1.83
	Island Bayou	OK410700-00-0040G	16	4	0.391	0.101	0.404	0.037	0.08	0.232	0.583	1.159
	Leader Creek	OK410400-03-0370B	16	5	0.152	0.025	0.1002	0.037	0.081	0.141	0.1908	0.464
	Lick Creek	OK410400-01-0130G	10	4	0.124	0.019	0.0594	0.059	0.084	0.107	0.1535	0.249
	Little West Blue Creek	OK410600-02-0100C	6	2	0.023	0.005	0.0127	0.006	0.014	0.02	0.037	0.04
	Lukfata Creek	OK410210-07-0010G	15	3	0.05	0.006	0.0228	0.011	0.031	0.055	0.063	0.081
	McGee Creek	OK410400-07-0010C	16	4	0.01	0.002	0.0062	0.005	0.006	0.009	0.0115	0.027
	Mineral Bayou	OK410600-01-0300G	19	4	0.05	0.013	0.0563	0.005	0.022	0.037	0.055	0.258
	North Boggy Creek	OK410400-08-0010M	19	5	0.061	0.008	0.0366	0.005	0.034	0.054	0.083	0.157
	Norwood Creek	OK410100-01-0050H	16	2	0.09	0.012	0.0458	0.026	0.063	0.084	0.101	0.21
	One Creek	OK410300-03-0060F	19	7	0.099	0.043	0.1877	0.013	0.023	0.033	0.065	0.768
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	0.028	0.005	0.0209	0.005	0.015	0.025	0.032	0.075
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	0.044	0.007	0.0318	0.012	0.027	0.036	0.059	0.16
	Sand Creek	OK410700-00-0260G	19	3	0.027	0.004	0.0165	0.005	0.015	0.021	0.043	0.063
	Sandy Creek	OK410600-02-0020G	19	3	0.068	0.028	0.1238	0.005	0.013	0.024	0.051	0.502
	Sulphur Creek	OK410600-01-0030G	13	5	0.092	0.039	0.1411	0.015	0.036	0.048	0.072	0.547
	Tenmile Creek	OK410300-03-0270C	16	4	0.057	0.007	0.0275	0.017	0.034	0.052	0.0735	0.125
	Terrapin Creek	OK410210-02-0150G	19	4	0.047	0.023	0.1014	0.005	0.011	0.017	0.027	0.448
	Waterhole Creek	OK410100-01-0340D	16	2	0.118	0.018	0.0732	0.053	0.061	0.098	0.1328	0.285

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	West Fork Glover River	OK410210-08-0010M	18	4	0.031	0.005	0.0209	0.007	0.014	0.027	0.0418	0.079
	Whitegrass Creek	OK410400-01-0210G	11	4	0.081	0.011	0.0363	0.038	0.047	0.077	0.128	0.134
TDS (mg/L)	Beech Creek	OK410210-06-0320G	17	2	31.88	3.9	16.07	10	20.5	31	38.5	76
	Big Cedar Creek	OK410310-02-0100D	17	3	56.35	5.01	20.67	26	43.5	52	64	110
	Big Eagle Creek	OK410210-06-0160L	16	2	34.25	3.36	13.44	10	23	35	42.75	64
	Billy Creek	OK410310-02-0070C	15	2	52.33	4.04	15.66	33	41	51	59	95
	Bird Creek	OK410300-01-0100C	15	4	274.8	17.8	68.8	149	228	276	323	407
	Black Fork of Little River	OK410210-03-0020C	20	5	41.45	3.41	15.26	10	34.25	41	52.75	70
	Bokchito Creek	OK410600-01-0090G	19	4	279.6	9.9	43.16	149	260	283	303	364
	Buck Creek	OK410310-03-0420C	14	4	83.43	7.71	28.85	60	64	72.5	97.75	168
	Buffalo Creek	OK410210-06-0020G	16	1	37.25	4.54	18.14	10	26	38.5	45.75	77
	Caddo Creek	OK410600-01-0140G	18	3	226.9	10.8	46	135	200.3	223.5	263.8	300
	Caney Boggy Creek	OK410400-06-0120G	17	5	194.6	9.95	41.03	145	162	179	230.5	272
	Caney Creek (lower)	OK410400-02-0200G	18	4	369.9	68.4	290.3	177	211.3	241.5	354.5	1064
	Caney Creek (upper)	OK410400-03-0020C	17	5	302.6	31.5	130.1	10	270	304	391.5	486
	Cedar Creek	OK410300-03-0020M	19	6	69.05	6.93	30.19	10	53	64	78	125
	Cloudy Creek	OK410210-02-0300C	19	6	67.26	5.62	24.48	10	53	68	80	132
	Cow Creek	OK410210-06-0350G	18	2	41.61	4.17	17.69	10	28.75	39.5	52.5	87
	Cypress Creek	OK410210-01-0070G	18	3	51.78	4.92	20.88	10	39.25	53.5	58.5	102
	Delaware Creek	OK410400-03-0240M	16	4	339.4	20.6	82.5	212	302	328	361.3	501
	East Fork Glover River	OK410210-09-0010G	17	4	44.41	4.59	18.91	10	30	52	56	79
	Goose Creek	OK410400-03-0490G	13	8	254.1	27.8	100.3	197	208	226	246	576
	Horse Creek	OK410400-01-0040G	18	6	283.6	13.1	55.7	198	254.8	276	291.5	478
	Island Bayou	OK410700-00-0040G	16	4	496.3	41	164	216	407.3	481.5	579.8	838
	Leader Creek	OK410400-03-0370B	15	6	214.5	16	61.9	140	163	195	272	326

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
TSS (mg/L)	Lick Creek	OK410400-01-0130G	10	4	226.7	14.9	47	171	190.8	220.5	257	307
	Little West Blue Creek	OK410600-02-0100C	6	2	309	5.8	14.21	291	295.5	308.5	324.25	325
	Lukfata Creek	OK410210-07-0010G	15	3	128.8	9.65	37.39	86	101	121	140	214
	McGee Creek	OK410400-07-0010C	16	4	48.56	4.31	17.25	10	43.25	52	62	69
	Mineral Bayou	OK410600-01-0300G	19	4	249.7	17.4	75.7	10	224	261	278	416
	North Boggy Creek	OK410400-08-0010M	19	5	931	133	578	10	320	1143	1382	1676
	Norwood Creek	OK410100-01-0050H	16	2	248.1	25.9	103.5	98	177.8	217	283.8	509
	One Creek	OK410300-03-0060F	19	7	89.5	12.5	54.3	48	53	66	122	252
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	55.53	7.98	30.92	10	30	52	78	109
	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	69.53	5.7	24.82	21	53	68	83	125
	Sand Creek	OK410700-00-0260G	19	3	236.8	6.79	29.62	150	235	241	252	271
	Sandy Creek	OK410600-02-0020G	19	3	194.5	13.9	60.7	113	154	177	217	328
	Sulphur Creek	OK410600-01-0030G	13	5	316.2	18.1	65.4	256	263.5	283	356	448
	Tenmile Creek	OK410300-03-0270C	16	4	99.56	4.43	17.7	67	87.25	98.5	109.5	144
	Terrapin Creek	OK410210-02-0150G	19	4	53.63	6.37	27.78	10	37	45	68	112
	Waterhole Creek	OK410100-01-0340D	16	2	315.8	18.4	73.6	185	264.5	327	360.8	455
	West Fork Glover River	OK410210-08-0010M	18	4	56.44	6.34	26.89	18	38	50.5	65.75	135
	Whitegrass Creek	OK410400-01-0210G	11	4	204.3	12.8	42.6	129	181	204	224	297
TSS (mg/L)	Beech Creek	OK410210-06-0320G	17	2	10.24	0.182	0.752	10	10	10	10	13
	Big Cedar Creek	OK410310-02-0100D	17	3	10	0	0	10	10	10	10	10
	Big Eagle Creek	OK410210-06-0160L	16	2	10	0	0	10	10	10	10	10
	Billy Creek	OK410310-02-0070C	15	2	10	0	0	10	10	10	10	10
	Bird Creek	OK410300-01-0100C	15	4	11.07	1.07	4.13	10	10	10	10	26
	Black Fork of Little River	OK410210-03-0020C	20	5	10	0	0	10	10	10	10	10
	Bokchito Creek	OK410600-01-0090G	19	4	13.19	1.95	8.5	10	10	10	10	38

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Buck Creek	OK410310-03-0420C	14	4	10	0	0	10	10	10	10	10
	Buffalo Creek	OK410210-06-0020G	16	1	10.13	0.125	0.5	10	10	10	10	12
	Caddo Creek	OK410600-01-0140G	18	3	10	0	0	10	10	10	10	10
	Caney Boggy Creek	OK410400-06-0120G	18	4	9.672	0.605	2.568	0.1	10	10	10	14
	Caney Creek (lower)	OK410400-02-0200G	18	4	16.06	3.05	12.94	10	10	10	15	60
	Caney Creek (upper)	OK410400-03-0020C	17	5	10.35	0.353	1.455	10	10	10	10	16
	Cedar Creek	OK410300-03-0020M	19	6	11.31	1.68	7.32	3.9	10	10	10	41
	Cloudy Creek	OK410210-02-0300C	19	6	10	0	0	10	10	10	10	10
	Cow Creek	OK410210-06-0350G	18	2	10	0	0	10	10	10	10	10
	Cypress Creek	OK410210-01-0070G	18	3	10	0	0	10	10	10	10	10
	Delaware Creek	OK410400-03-0240M	16	4	10	0	0	10	10	10	10	10
	East Fork Glover River	OK410210-09-0010G	17	4	10	0	0	10	10	10	10	10
	Goose Creek	OK410400-03-0490G	14	7	12.71	1.55	5.8	10	10	10	15	31
	Horse Creek	OK410400-01-0040G	18	6	14.11	3.57	15.13	10	10	10	10	74
	Island Bayou	OK410700-00-0040G	16	4	12.25	2.18	8.74	10	10	10	10	45
	Leader Creek	OK410400-03-0370B	16	5	17.63	3.82	15.26	10	10	10	13.75	53
	Lick Creek	OK410400-01-0130G	10	4	14.4	2.56	8.1	10	10	10	19	34
	Little West Blue Creek	OK410600-02-0100C	6	2	10	0	0	10	10	10	10	10
	Lukfata Creek	OK410210-07-0010G	15	3	10	0	0	10	10	10	10	10
	McGee Creek	OK410400-07-0010C	16	4	10	0	0	10	10	10	10	10
	Mineral Bayou	OK410600-01-0300G	19	4	10.21	0.164	0.713	10	10	10	10	13
	North Boggy Creek	OK410400-08-0010M	19	5	10	0	0	10	10	10	10	10
	Norwood Creek	OK410100-01-0050H	16	2	10.06	0.063	0.25	10	10	10	10	11
	One Creek	OK410300-03-0060F	19	7	12.89	2.48	10.8	1	10	10	10	50
	Rock Creek (McCurtain)	OK410200-03-0010G	15	1	10.6	0.6	2.324	10	10	10	10	19

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Turbidity (NTU)	Rock Creek (Pushmataha)	OK410300-02-0190G	19	6	10	0	0	10	10	10	10	10
	Sand Creek	OK410700-00-0260G	19	3	10	0	0	10	10	10	10	10
	Sandy Creek	OK410600-02-0020G	19	3	13.42	3.42	14.91	10	10	10	10	75
	Sulphur Creek	OK410600-01-0030G	13	5	21.5	11	39.5	10	10	10	11.5	153
	Tenmile Creek	OK410300-03-0270C	16	4	10	0	0	10	10	10	10	10
	Terrapin Creek	OK410210-02-0150G	19	4	10	0	0	10	10	10	10	10
	Waterhole Creek	OK410100-01-0340D	16	2	11.06	0.772	3.087	10	10	10	10	22
	West Fork Glover River	OK410210-08-0010M	18	4	10	0	0	10	10	10	10	10
	Whitegrass Creek	OK410400-01-0210G	11	4	15.55	3.11	10.31	10	10	10	15	38
Beech Creek	OK410210-06-0320G	18	1	6.91	1.33	5.62	2.73	4.57	5.27	6.44	27	
Big Cedar Creek	OK410310-02-0100D	18	2	12.49	2.95	12.5	1.17	3.87	8.95	16.73	52.4	
Big Eagle Creek	OK410210-06-0160L	17	1	3.488	0.428	1.766	1.44	2.05	3.61	4.155	8.67	
Billy Creek	OK410310-02-0070C	16	1	6.603	0.675	2.701	2.85	5.17	5.745	7.583	14.3	
Bird Creek	OK410300-01-0100C	16	3	12.46	3.17	12.68	0.73	2.25	7.07	19.43	46.4	
Black Fork of Little River	OK410210-03-0020C	21	4	4.3	0.483	2.212	1.61	2.73	3.73	5.495	9.92	
Bokchito Creek	OK410600-01-0090G	20	3	5.47	1.74	7.77	0.99	1.83	2.46	6.58	36.1	
Buck Creek	OK410310-03-0420C	15	3	12.19	2.29	8.86	4.35	5.07	7.92	19.5	31.4	
Buffalo Creek	OK410210-06-0020G	17	0	7.77	2.27	9.35	1.71	2.89	5.99	8.68	42.3	
Caddo Creek	OK410600-01-0140G	19	2	9.05	1.38	6	2.24	5.61	6.5	11	24.8	
Caney Boggy Creek	OK410400-06-0120G	19	3	31.1	10.3	45	3.3	8.4	17	34.1	194	
Caney Creek (lower)	OK410400-02-0200G	18	4	28.56	6.13	26	7.35	13.18	21.15	31.28	110	
Caney Creek (upper)	OK410400-03-0020C	17	5	8.63	1.6	6.61	2.52	4.61	6.47	10.67	26.9	
Cedar Creek	OK410300-03-0020M	20	5	11.32	3.83	17.11	2.44	3.86	6.13	9.53	79.7	
Cloudy Creek	OK410210-02-0300C	20	5	6.428	0.935	4.18	1.92	3.813	4.795	8.028	18.4	
Cow Creek	OK410210-06-0350G	19	1	9.28	1.59	6.94	3.02	5.48	8.02	8.99	31.9	

Variable	Site Name	WBID	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
	Cypress Creek	OK410210-01-0070G	19	2	4.102	0.434	1.89	1.49	2.94	3.88	4.39	8.77
	Delaware Creek	OK410400-03-0240M	17	3	7.03	1.65	6.79	1.28	2.82	4.45	6.77	21.6
	East Fork Glover River	OK410210-09-0010G	18	3	5.028	0.582	2.47	2.23	3.038	4.705	6.45	12.2
	Goose Creek	OK410400-03-0490G	15	6	14.58	3.76	14.57	1.68	5.57	8.01	19.4	59.6
	Horse Creek	OK410400-01-0040G	20	4	8.04	1.7	7.61	1.15	4.51	6.19	9.75	37.8
	Island Bayou	OK410700-00-0040G	17	3	17.82	3.57	14.73	4.38	7.09	11	29.05	49
	Leader Creek	OK410400-03-0370B	17	4	56.69	9.46	38.99	7.75	21.9	52.7	86.45	129
	Lick Creek	OK410400-01-0130G	11	3	63.3	11.8	39.1	22.5	41.6	46.9	89.6	155
	Little West Blue Creek	OK410600-02-0100C	7	1	4.63	1.47	3.9	1.4	1.68	2.87	5.9	12.5
	Lukfata Creek	OK410210-07-0010G	16	2	6.708	0.829	3.314	2.88	4.34	5.66	9.13	14.9
	McGee Creek	OK410400-07-0010C	16	4	5.442	0.611	2.444	2.53	3.473	4.9	7.543	10.4
	Mineral Bayou	OK410600-01-0300G	20	3	35.1	18.6	83.2	3.2	6.2	11.6	25.2	382
	North Boggy Creek	OK410400-08-0010M	19	5	7.2	2.15	9.37	1.25	2.6	4.05	7.96	43.1
	Norwood Creek	OK410100-01-0050H	17	1	28.1	10.3	42.6	5.9	10	14	26.9	185
	One Creek	OK410300-03-0060F	20	6	24.9	11.7	52.5	2.1	5.5	7.5	12.1	182
	Rock Creek (McCurtain)	OK410200-03-0010G	16	0	15.79	8.63	34.51	2.14	3.4	5.82	12.5	144
	Rock Creek (Pushmataha)	OK410300-02-0190G	20	5	6.97	1.14	5.1	1.83	3.01	5.25	10.1	19.7
	Sand Creek	OK410700-00-0260G	20	2	8.21	1.24	5.54	3.45	4.7	5.72	9.65	25.9
	Sandy Creek	OK410600-02-0020G	20	2	10.69	3.68	16.47	1.09	1.62	2.58	11.98	65.2
	Sulphur Creek	OK410600-01-0030G	14	4	20.41	3.14	11.75	5.43	8.91	20.1	29.85	42.7
	Tenmile Creek	OK410300-03-0270C	17	3	17.24	3.5	14.44	3.57	7.03	11.3	22.1	50.3
	Terrapin Creek	OK410210-02-0150G	20	3	5.449	0.609	2.721	1.83	3.558	4.78	6.685	13
	Waterhole Creek	OK410100-01-0340D	17	1	15.39	1.98	8.15	5.06	10	12.9	18.8	37.2
	West Fork Glover River	OK410210-08-0010M	19	3	5.76	1.46	6.37	2.11	2.8	4	6.64	30.4
	Whitegrass Creek	OK410400-01-0210G	12	3	35.9	7.23	25.04	9.61	17.38	29.8	51.53	95.6

APPENDIX B FISH DATA

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectivor	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	113	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	97	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	94	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	54	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	41	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	26	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	7	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	5	Ictaluridae	Noturus exilis	Slender madtom	intol	X						X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	3	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	2	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	2	Percidae	Percina caprodes	Logperch	interm	X						
Beech Creek	OK410210-06-0320G	46344	02-Jun-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	109	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	45	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	37	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	29	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	24	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	12	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	12	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	8	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	5	Esocidae	Esox americanus	Grass pickerel	interm			X				
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	3	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	2	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
Big Cedar Creek	OK410310-02-0100D	46343	01-Jun-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	157	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	113	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			X			X	
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	70	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	62	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	40	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	27	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	23	Ictaluridae	Noturus exilis	Slender madtom	intol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	22	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	6	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	1	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
Big Eagle Creek	OK410210-06-0160L	46352	22-Jun-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol			X				X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	137	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	128	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	111	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	74	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	46	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	38	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	27	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	17	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	16	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	7	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			X				
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	5	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	4	Percidae	Percina caprodes	Logperch	interm	X						
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	3	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Billy Creek	OK410310-02-0070C	46350	21-Jun-10	1	Petromyzontidae	Ichthyomyzon gagei	Southern brook lamprey	intol		X					
Bird Creek	OK410300-01-0100C	46376	11-May-10	65	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	54	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	32	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	31	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Bird Creek	OK410300-01-0100C	46376	11-May-10	24	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Bird Creek	OK410300-01-0100C	46376	11-May-10	16	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	13	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	6	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				X
Bird Creek	OK410300-01-0100C	46376	11-May-10	6	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Bird Creek	OK410300-01-0100C	46376	11-May-10	4	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	2	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Bird Creek	OK410300-01-0100C	46376	11-May-10	2	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Bird Creek	OK410300-01-0100C	46376	11-May-10	1	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	192	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	81	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	60	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	17	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	13	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	13	Cyprinidae	Lythrurus nelsoni	Ouachita Mountain shiner	intol	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	6	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	6	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	5	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	4	Catostomidae	Moxostoma duquesnei	Black redhorse	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	4	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			X				
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	3	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	3	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	3	Percidae	Percina pantherina	Leopard darter	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol			X				
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Percidae	Percina caprodes	Logperch	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	2	Percidae	Percina copelandi	Channel darter	intol	X						X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol			X				X
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Black Fork Little River	OK410210-03-0020C	46360	06-Jul-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			X				
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	139	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	137	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	70	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	63	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	55	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	21	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	11	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	8	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	5	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	5	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	4	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	4	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	2	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Bokchito Creek	OK410600-01-0090G	46411	02-Jun-10	1	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	26	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	26	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	19	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	19	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	14	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	11	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	10	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	8	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	6	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	3	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	2	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	2	Percidae	Percina sciera	Dusky darter	interm	X						X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	2	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	1	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Buck Creek	OK410310-03-0420C	46382	14-Jul-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	134	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			X				X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	113	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	71	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	59	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	33	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	13	Percidae	Etheostoma artesiae	Redspotted darter	intol	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	10	Ictaluridae	Noturus exilis	Slender madtom	intol	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	7	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	6	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	4	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	4	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	3	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	2	Percidae	Percina caprodes	Logperch	interm	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	1	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Buffalo Creek	OK410210-06-0020G	46353	22-Jun-10	1	Esocidae	Esox americanus	Grass pickerel	interm			X				
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	111	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	52	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	48	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	37	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	36	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	29	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	29	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	16	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	14	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	12	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	8	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	8	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	8	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	7	Centrarchidae	Unidentified Lepomis spp.	Unidentified sunfish spp.	interm	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	6	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	2	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	2	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	2	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	1	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Caddo Creek	OK410600-01-0140G	46425	10-Aug-10	1	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol						X	
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	98	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	86	Cyprinidae	Cyprinella lutrensis	Red shiner	tol				X			
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	36	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	33	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	4	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	4	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	3	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	2	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			x		x		
Caney Boggy Creek	OK410400-06-0120G	46410	01-Jun-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	125	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	64	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	49	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	43	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	28	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	27	Centrarchidae	Pomoxis annularis	White crappie	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	14	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	11	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	8	Catostomidae	Minytrema melanops	Spotted sucker	intol	x						x
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	5	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	3	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x						x
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	2	Catostomidae	Carpioles carpio	River carpsucker	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	x						x
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			x				x
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	x						
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Lepisosteidae	Lepisosteus platostomus	Shortnose gar	tol			x				
Caney Creek (lower)	OK410400-02-0200G	46419	03-Aug-10	1	Percidae	Etheostoma gracile	Slough darter	intol	x						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	96	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	87	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	52	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	36	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	34	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	22	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	21	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	20	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	19	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	15	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	15	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	15	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	11	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	8	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	8	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	6	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	5	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	2	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	2	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	1	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	1	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Caney Creek (upper)	OK410400-03-0020C	46420	03-Aug-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	108	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	106	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	61	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	35	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	28	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	26	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	23	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	6	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	6	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	6	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	4	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	4	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	4	Percidae	Percina sciera	Dusky darter	interm	X						X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	3	Ictaluridae	Noturus eleutherus	Mountain madtom	intol	X						X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	2	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	2	Petromyzontidae	Ichthyomyzon gagei	Southern brook lamprey	intol		X					
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	2	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	1	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Cedar Creek	OK410300-03-0020M	46379	30-Jun-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	65	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	41	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	37	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	37	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	31	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	20	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	18	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	12	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	10	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	7	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	3	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	X						X
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	1	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Cloudy Creek	OK410210-02-0300C	46378	27-May-10	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Cow Creek	OK410210-06-0350G	46338	24-May-10	118	Cyprinidae	Lythrurus nelsoni	Ouachita Mountain shiner	intol	X						
Cow Creek	OK410210-06-0350G	46338	24-May-10	72	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	59	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Cow Creek	OK410210-06-0350G	46338	24-May-10	33	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Cow Creek	OK410210-06-0350G	46338	24-May-10	27	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	14	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	10	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Cow Creek	OK410210-06-0350G	46338	24-May-10	9	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	7	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	5	Ictaluridae	Noturus exilis	Slender madtom	intol	X						X
Cow Creek	OK410210-06-0350G	46338	24-May-10	5	Ictaluridae	Noturus miurus	Brindled madtom	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Cow Creek	OK410210-06-0350G	46338	24-May-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	62	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	42	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	25	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	15	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	8	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	8	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	7	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	5	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	4	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	3	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	1	Esocidae	Esox americanus	Grass pickerel	interm				X			
Cypress Creek	OK410210-01-0070G	46361	07-Jul-10	1	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X						X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	59	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	48	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	47	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	42	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	40	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	33	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	12	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	11	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	11	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	11	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	8	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	7	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	6	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	3	Percidae	Percina sciera	Dusky darter	interm	X						X
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	2	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	X						
Delaware Creek	OK410400-03-0240M	46422	05-Aug-10	1	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X					X	
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	248	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	216	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	151	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	136	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	105	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	29	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	16	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	16	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	11	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	9	Percidae	Percina caprodes	Logperch	interm	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	8	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	6	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	5	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	4	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	3	Percidae	Percina pantherina	Leopard darter	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	2	Catostomidae	Moxostoma duquesnei	Black redhorse	intol	X						X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	1	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol			X				X
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	1	Esocidae	Esox americanus	Grass pickerel	interm			X				
East Fork Glover River	OK410210-09-0010G	46354	23-Jun-10	1	Percidae	Etheostoma chlorosomum	Bluntnose darter	intol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	90	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	33	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	19	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	14	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	11	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	10	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	7	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	2	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	1	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Goose Creek	OK410400-03-0490G	46423	05-Aug-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Horse Creek	OK410400-01-0040G	46375	10-May-10	171	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Horse Creek	OK410400-01-0040G	46375	10-May-10	62	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	60	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Horse Creek	OK410400-01-0040G	46375	10-May-10	42	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Horse Creek	OK410400-01-0040G	46375	10-May-10	30	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	28	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Horse Creek	OK410400-01-0040G	46375	10-May-10	25	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Horse Creek	OK410400-01-0040G	46375	10-May-10	21	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	16	Percidae	Percina sciera	Dusky darter	interm	X						X
Horse Creek	OK410400-01-0040G	46375	10-May-10	8	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	8	Ictaluridae	Ameiurus melas	Black bullhead	tol	X					X	
Horse Creek	OK410400-01-0040G	46375	10-May-10	7	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	X
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Horse Creek	OK410400-01-0040G	46375	10-May-10	2	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X	X	
Horse Creek	OK410400-01-0040G	46375	10-May-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	136	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		X					
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	108	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	82	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	17	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	17	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	11	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	9	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	8	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	7	Percidae	Percina sciera	Dusky darter	interm	X						X
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	6	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	5	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	5	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	3	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	3	Percidae	Percina phoxocephala	Slenderhead darter	intol	X						X
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	2	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	2	Percidae	Percina caprodes	Logperch	interm	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol					X		
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol					X		
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Island Bayou	OK410700-00-0040G	46426	10-Aug-10	1	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	64	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	18	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	16	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	14	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	5	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	5	Percidae	Percina sciera	Dusky darter	interm	X						X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	4	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	3	Percidae	Percina pantherina	Leopard darter	intol	X						X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	2	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			X				
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol			X				
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Leader Creek	OK410400-03-0370B	46418	02-Aug-10	1	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	38	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	25	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	14	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	11	Cyprinidae	Notropis atrocaudalis	Blackspot shiner	intol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	9	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	7	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	5	Esocidae	Esox americanus	Grass pickerel	interm			X				
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	4	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		X					
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	4	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	3	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	2	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol		X					
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	2	Percidae	Percina sciera	Dusky darter	interm	X						X
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Percidae	Etheostoma chlorosomum	Bluntnose darter	intol	X						
Lick Creek	OK410400-01-0130G	49517	01-Jun-11	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	105	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	81	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	77	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	65	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	63	Cyprinidae	Nocomis asper	Redspot chub	intol	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	55	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	55	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	39	Cyprinidae	Phoxinus erythrogaster	Southern redbelly dace	intol					X		X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	8	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	6	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	3	Percidae	Etheostoma microporca	Least darter	intol	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	3	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	2	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Little West Blue Creek	OK410600-02-0100C	46397	10-Jun-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	100	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	70	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	61	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	56	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	53	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	28	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	25	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	13	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	12	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	8	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	7	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	6	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	4	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	4	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	3	Catostomidae	Moxostoma duquesnei	Black redhorse	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	2	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			X			X	X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	2	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X			X			
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	2	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	2	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	2	Percidae	Percina sciera	Dusky darter	interm	X						X
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	1	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	1	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	1	Cyprinidae	Lythrurus fumeus	Ribbon shiner	intol	X						
Lukfata Creek	OK410210-07-0010G	46339	25-May-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	67	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	50	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	35	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X			X			
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	25	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	21	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			X			X	X
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	19	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	11	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	7	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	7	Percidae	Percina sciera	Dusky darter	interm	X						X
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	6	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	6	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	4	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	3	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X	X	
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	2	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	2	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Mineral Bayou	OK410600-01-0300G	46424	09-Aug-10	1	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	137	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	73	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	26	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	25	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	23	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	17	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	13	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	13	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	13	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	12	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	7	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	6	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	4	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			x				
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	4	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	x						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	4	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			x		x		
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	3	Centrarchidae	Pomoxis annularis	White crappie	tol			x				
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	2	Percichthyidae	Morone chrysops	White bass	tol			x				
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	x						x
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	1	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		x					
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x					x	
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	1	Percidae	Percina caprodes	Logperch	interm	x						
North Boggy Creek	OK410400-08-0010M	46421	04-Aug-10	1	Sciaenidae	Aplodinotus grunniens	Freshwater drum	tol	x					x	
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	67	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	40	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	20	Percidae	Percina sciera	Dusky darter	interm	x						x
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	13	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	9	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x					x	
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	9	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		x					
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	9	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	7	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	6	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			x				
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	3	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			x			x	x
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	3	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			x				
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	3	Percidae	Percina caprodes	Logperch	interm	x						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	x						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Catostomidae	Carpioles carpio	River carpsucker	tol			X				
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Clupeidae	Dorosoma petenense	Threadfin shad	interm			X				
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	2	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Amiidae	Amia calva	Bowfin	tol				X			
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Centrarchidae	Lepomis marginatus	Dollar sunfish	intol	X						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol				X			
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Fundulidae	Fundulus chrysotus	Golden topminnow	tol	X						
Norwood Creek	OK410100-01-0050H	46372	12-Aug-10	1	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	79	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	68	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	59	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
One Creek	OK410300-03-0060F	46380	01-Jul-10	53	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	41	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
One Creek	OK410300-03-0060F	46380	01-Jul-10	38	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
One Creek	OK410300-03-0060F	46380	01-Jul-10	30	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	23	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	14	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
One Creek	OK410300-03-0060F	46380	01-Jul-10	10	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
One Creek	OK410300-03-0060F	46380	01-Jul-10	9	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	9	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
One Creek	OK410300-03-0060F	46380	01-Jul-10	8	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	8	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
One Creek	OK410300-03-0060F	46380	01-Jul-10	7	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
One Creek	OK410300-03-0060F	46380	01-Jul-10	6	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	5	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	4	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
One Creek	OK410300-03-0060F	46380	01-Jul-10	3	Petromyzontidae	Ichthyomyzon gagei	Southern brook lamprey	intol		X					
One Creek	OK410300-03-0060F	46380	01-Jul-10	2	Ictaluridae	Noturus eleutherus	Mountain madtom	intol	X						X
One Creek	OK410300-03-0060F	46380	01-Jul-10	2	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol				X			
One Creek	OK410300-03-0060F	46380	01-Jul-10	2	Percidae	Percina caprodes	Logperch	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	2	Percidae	Percina sciera	Dusky darter	interm	X						X
One Creek	OK410300-03-0060F	46380	01-Jul-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
One Creek	OK410300-03-0060F	46380	01-Jul-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
One Creek	OK410300-03-0060F	46380	01-Jul-10	1	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
One Creek	OK410300-03-0060F	46380	01-Jul-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	60	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	32	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	27	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	25	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	24	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	11	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	5	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	2	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	1	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	1	Centrarchidae	Lepomis marginatus	Dollar sunfish	intol	X						
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	1	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Rock Creek (McCurtain)	OK410200-03-0010G	46340	25-May-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	33	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	28	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	21	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	14	Centrarchidae	Micropterus salmoides	Largemouth bass	tol					X		
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	14	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	14	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	12	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	4	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	3	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	2	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	1	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol				X			
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Rock Creek (Pushmataha)	OK410300-02-0190G	46357	29-Jun-10	1	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol				X			
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	104	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	92	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	46	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	41	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	32	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	27	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	27	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	24	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	23	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	18	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	11	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	5	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	2	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol					X		
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X				X		
Sand Creek	OK410700-00-0260G	46399	15-Jul-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	92	Cyprinidae	Unidentified Pimephales spp.	Unidentified minnow spp.	unk							
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	56	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	36	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	17	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	11	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	8	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	6	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	6	Percidae	Percina sciera	Dusky darter	interm	X						X
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	5	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	5	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	4	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	4	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	3	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	2	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	2	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Sandy Creek	OK410600-02-0020G	46398	14-Jul-10	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	116	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	102	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	70	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	62	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	27	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	22	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	14	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	9	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	9	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	9	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	8	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	6	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	4	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	3	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	3	Percidae	Percina sciera	Dusky darter	interm	X						X
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	3	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Sulphur Creek	OK410600-01-0030G	46412	03-Jun-10	2	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	25	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	18	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X					X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	18	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	16	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	15	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	12	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	10	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	7	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	7	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	5	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	5	Percidae	Percina sciera	Dusky darter	interm	X					X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	4	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	4	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X					X	
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol			X				
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol		X					
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		X					
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			X				
Tenmile Creek	OK410300-03-0270C	46381	12-Jul-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	60	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	32	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	22	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	17	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	16	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	15	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	10	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	8	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	4	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	4	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	3	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
Terrapin Creek	OK410210-02-0150G	46377	26-May-10	1	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	47	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	37	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	20	Cyprinidae	Cyprinella lutrensis	Red shiner	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	17	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	16	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	11	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	6	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	6	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	4	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	4	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	4	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	3	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	3	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	2	Amiidae	Amia calva	Bowfin	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	2	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	2	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	2	Percidae	Percina sciera	Dusky darter	interm	X						X
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Catostomidae	Ictiobus bubalus	Smallmouth buffalo	tol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Centrarchidae	Lepomis marginatus	Dollar sunfish	intol	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol				X			
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, longear x green sunfish	tol							
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Cyprinidae	Cyprinus carpio	Common carp	tol			X				
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Waterhole Creek	OK410100-01-0340D	46347	14-Jun-10	1	Percidae	Percina caprodes	Logperch	interm	X						
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	250	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	148	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	112	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	54	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	37	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	22	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	20	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	11	Cyprinidae	<i>Cyprinella whipplei</i>	Steelcolor shiner	intol	X						X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	10	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	X						
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	5	Centrarchidae	<i>Micropterus dolomieu</i>	Smallmouth bass	intol			X				X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	2	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	2	Ictaluridae	<i>Pylodictis olivaris</i>	Flathead catfish	tol			X				
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	1	Catostomidae	<i>Moxostoma</i>	Redhorse sucker	intol	X						X
West Fork Glover River	OK410210-08-0010M	46362	26-Jul-10	1	Cyprinidae	<i>Pimephales notatus</i>	Bluntnose minnow	interm			X				X
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	45	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	36	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X						X
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	7	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	5	Poeciliidae	<i>Gambusia affinis</i>	Mosquitofish	tol	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	4	Percidae	<i>Percina sciera</i>	Dusky darter	interm	X						X
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	3	Aphredoderidae	<i>Aphredoderus sayanus</i>	Pirate perch	intol	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	2	Cyprinidae	<i>Notropis amnis</i>	Pallid shiner	intol	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	2	Fundulidae	<i>Fundulus notatus</i>	Blackstripe topminnow	interm	X						
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	1	Catostomidae	<i>Minytrema melanops</i>	Spotted sucker	intol	X						X
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	1	Centrarchidae	<i>Lepomis gulosus</i>	Warmouth sunfish	tol				X			
Whitegrass Creek	OK410400-01-0210G	46369	05-Aug-10	1	Ictaluridae	<i>Noturus gyrinus</i>	Tadpole madtom	intol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	161	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	76	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X						X
Beaver Creek	OKLRED-108	46365	29-Jul-10	75	Poeciliidae	<i>Gambusia affinis</i>	Mosquitofish	tol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	65	Cyprinidae	<i>Notropis atherinoides</i>	Emerald shiner	tol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	50	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X			X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Beaver Creek	OKLRED-108	46365	29-Jul-10	34	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	31	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Beaver Creek	OKLRED-108	46365	29-Jul-10	22	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Beaver Creek	OKLRED-108	46365	29-Jul-10	15	Percidae	Percina sciera	Dusky darter	interm	X					X	
Beaver Creek	OKLRED-108	46365	29-Jul-10	7	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	5	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	4	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Beaver Creek	OKLRED-108	46365	29-Jul-10	3	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	3	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Beaver Creek	OKLRED-108	46365	29-Jul-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	1	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Beaver Creek	OKLRED-108	46365	29-Jul-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	217	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	31	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	16	Percidae	Etheostoma artesiae	Redspotted darter	intol	X						
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	16	Percidae	Etheostoma artesiae	Redspotted darter	intol	X						
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	15	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	14	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	4	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	2	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	1	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Big Cedar Creek	OKLRED-011	46355	24-Jun-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Blue River (025)	OKLRED-025	46366	02-Aug-10	129	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm					X		X
Blue River (025)	OKLRED-025	46366	02-Aug-10	108	Catostomidae	<i>Moxostoma erythrurum</i>	Golden redhorse	interm	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	73	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X					X	
Blue River (025)	OKLRED-025	46366	02-Aug-10	66	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Blue River (025)	OKLRED-025	46366	02-Aug-10	27	Cyprinidae	<i>Luxilus chryscephalus</i>	Striped shiner	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	23	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X
Blue River (025)	OKLRED-025	46366	02-Aug-10	18	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	X						
Blue River (025)	OKLRED-025	46366	02-Aug-10	16	Cyprinidae	<i>Cyprinella venusta</i>	Blacktail shiner	interm	X				X		
Blue River (025)	OKLRED-025	46366	02-Aug-10	16	Cyprinidae	<i>Nocomis asper</i>	Redspot chub	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	15	Catostomidae	<i>Minytrema melanops</i>	Spotted sucker	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	14	Catostomidae	<i>Moxostoma</i>	Redhorse sucker	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	13	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	11	Centrarchidae	<i>Micropterus dolomieu</i>	Smallmouth bass	intol				X			X
Blue River (025)	OKLRED-025	46366	02-Aug-10	8	Centrarchidae	<i>Lepomis microlophus</i>	Redear sunfish	interm	X						
Blue River (025)	OKLRED-025	46366	02-Aug-10	8	Cyprinidae	<i>Notropis suttkusi</i>	Rocky Shiner	intol	X						
Blue River (025)	OKLRED-025	46366	02-Aug-10	7	Cyprinidae	<i>Notropis boops</i>	Bigeye shiner	intol	X						X
Blue River (025)	OKLRED-025	46366	02-Aug-10	5	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol					X		
Blue River (025)	OKLRED-025	46366	02-Aug-10	5	Percidae	<i>Percina caprodes</i>	Logperch	interm	X						
Blue River (025)	OKLRED-025	46366	02-Aug-10	1	Cyprinidae	<i>Notropis stramineus</i>	Sand shiner	interm	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	36	Cyprinidae	<i>Cyprinella venusta</i>	Blacktail shiner	interm	X				X		
Blue River (034)	OKLRED-034	46367	03-Aug-10	30	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Blue River (034)	OKLRED-034	46367	03-Aug-10	28	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	9	Ictaluridae	<i>Pylodictis olivaris</i>	Flathead catfish	tol				X			

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Blue River (034)	OKLRED-034	46367	03-Aug-10	8	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Blue River (034)	OKLRED-034	46367	03-Aug-10	6	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Blue River (034)	OKLRED-034	46367	03-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	5	Percidae	Percina phoxocephala	Slenderhead darter	intol	X						X
Blue River (034)	OKLRED-034	46367	03-Aug-10	4	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	4	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		X					
Blue River (034)	OKLRED-034	46367	03-Aug-10	4	Percidae	Percina sciera	Dusky darter	interm	X						X
Blue River (034)	OKLRED-034	46367	03-Aug-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	X
Blue River (034)	OKLRED-034	46367	03-Aug-10	2	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	2	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Blue River (034)	OKLRED-034	46367	03-Aug-10	2	Cyprinidae	Cyprinella lutrensis	Red shiner	tol		X					
Blue River (034)	OKLRED-034	46367	03-Aug-10	2	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X			X	
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol					X		
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Blue River (034)	OKLRED-034	46367	03-Aug-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Blue River (086)	OKLRED-086	46368	04-Aug-10	512	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Blue River (086)	OKLRED-086	46368	04-Aug-10	447	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Blue River (086)	OKLRED-086	46368	04-Aug-10	170	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectivor	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Blue River (086)	OKLRED-086	46368	04-Aug-10	132	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			x		x		
Blue River (086)	OKLRED-086	46368	04-Aug-10	40	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		x					
Blue River (086)	OKLRED-086	46368	04-Aug-10	31	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	22	Cyprinidae	Lythrurus fumeus	Ribbon shiner	intol	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	16	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	14	Percidae	Percina phoxocephala	Slenderhead darter	intol	x						x
Blue River (086)	OKLRED-086	46368	04-Aug-10	9	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			x				
Blue River (086)	OKLRED-086	46368	04-Aug-10	9	Percidae	Percina sciera	Dusky darter	interm	x					x	
Blue River (086)	OKLRED-086	46368	04-Aug-10	7	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			x				x
Blue River (086)	OKLRED-086	46368	04-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	4	Catostomidae	Cycleptus elongatus	Blue sucker	intol	x						x
Blue River (086)	OKLRED-086	46368	04-Aug-10	3	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	x						x
Blue River (086)	OKLRED-086	46368	04-Aug-10	3	Percidae	Percina caprodes	Logperch	interm	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	2	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			x			x	
Blue River (086)	OKLRED-086	46368	04-Aug-10	2	Cyprinidae	Notropis stramineus	Sand shiner	interm	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x						x
Blue River (086)	OKLRED-086	46368	04-Aug-10	1	Catostomidae	Ictiobus bubalus	Smallmouth buffalo	tol	x						
Blue River (086)	OKLRED-086	46368	04-Aug-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				x			
Blue River (086)	OKLRED-086	46368	04-Aug-10	1	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol		x					
Blue River (086)	OKLRED-086	46368	04-Aug-10	1	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol			x				
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	119	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	70	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	65	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						

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Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	53	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	49	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	44	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X			X			
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	43	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	9	Cyprinidae	Notropis boops	Bigeye shiner	intol	X					X	
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	8	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	3	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	2	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	2	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	X						
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Bois d' Arc Creek (131)	OKLRED-131	49515	16-May-11	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	228	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	50	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	32	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	10	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	10	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	8	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X		X	
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	2	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Bois d' Arc Creek	OKLRED-009	46402	21-Jul-10	1	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	50	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	50	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	26	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	21	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	14	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	12	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	11	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	10	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	10	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	8	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	7	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	3	Centrarchidae	Micropterus salmoides	Largemouth bass	tol							X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	3	Centrarchidae	Pomoxis nigromaculatus	Black crappie	tol							X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	3	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	2	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	1	Cyprinidae	Campostoma anomalum	Central stoneroller	interm							X
Bois d' Arc Creek (052)	OKLRED-052	46390	28-Jul-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	115	Cyprinidae	Campostoma anomalum	Central stoneroller	interm							X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	91	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	79	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	56	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	13	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	6	Cyprinidae	Lythrurus nelsoni	Ouachita Mountain shiner	intol	X						
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	6	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	5	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	5	Centrarchidae	Unidentified Lepomis spp.	Unidentified sunfish spp.	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	5	Percidae	Percina caprodes	Logperch	interm	X						
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	4	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol			X				X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	4	Percidae	Percina pantherina	Leopard darter	intol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	3	Ictaluridae	Noturus exilis	Slender madtom	intol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	2	Catostomidae	Moxostoma duquesnei	Black redhorse	intol	X						X
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	1	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	1	Esocidae	Esox americanus	Grass pickerel	interm				X			
Boktuklo Creek	OKLRED-110	46370	10-Aug-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Brier Creek	OKLRED-057	46406	19-Aug-10	42	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	36	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	35	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	20	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Brier Creek	OKLRED-057	46406	19-Aug-10	19	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	10	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	10	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Brier Creek	OKLRED-057	46406	19-Aug-10	10	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Brier Creek	OKLRED-057	46406	19-Aug-10	9	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Brier Creek	OKLRED-057	46406	19-Aug-10	8	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Brier Creek	OKLRED-057	46406	19-Aug-10	7	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	5	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Brier Creek	OKLRED-057	46406	19-Aug-10	3	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Brier Creek	OKLRED-057	46406	19-Aug-10	2	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Brier Creek	OKLRED-057	46406	19-Aug-10	2	Centrarchidae	<i>Pomoxis annularis</i>	White crappie	tol			x				
Brier Creek	OKLRED-057	46406	19-Aug-10	2	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	x						
Brier Creek	OKLRED-057	46406	19-Aug-10	1	Centrarchidae	<i>Lepomis gulosus</i>	Warmouth sunfish	tol			x				
Brier Creek	OKLRED-057	46406	19-Aug-10	1	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol			x				
Brier Creek	OKLRED-057	46406	19-Aug-10	1	Centrarchidae	<i>Pomoxis nigromaculatus</i>	Black crappie	tol			x				
Brier Creek	OKLRED-057	46406	19-Aug-10	1	Ictaluridae	<i>Ictalurus punctatus</i>	Channel catfish	tol			x		x		
Buffalo Creek	OKLRED-059	46363	27-Jul-10	100	Clupeidae	<i>Dorosoma petenense</i>	Threadfin shad	interm		x					
Buffalo Creek	OKLRED-059	46363	27-Jul-10	25	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	x						
Buffalo Creek	OKLRED-059	46363	27-Jul-10	18	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	x						
Buffalo Creek	OKLRED-059	46363	27-Jul-10	18	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol			x				
Buffalo Creek	OKLRED-059	46363	27-Jul-10	13	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	x				x		
Buffalo Creek	OKLRED-059	46363	27-Jul-10	8	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			x				x
Buffalo Creek	OKLRED-059	46363	27-Jul-10	6	Clupeidae	<i>Dorosoma cepedianum</i>	Gizzard shad	tol		x					
Buffalo Creek	OKLRED-059	46363	27-Jul-10	5	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	x						
Buffalo Creek	OKLRED-059	46363	27-Jul-10	4	Centrarchidae	<i>Lepomis gulosus</i>	Warmouth sunfish	tol			x				
Buffalo Creek	OKLRED-059	46363	27-Jul-10	3	Catostomidae	<i>Moxostoma erythrurum</i>	Golden redhorse	interm	x						x
Buffalo Creek	OKLRED-059	46363	27-Jul-10	2	Centrarchidae	<i>Lepomis microlophus</i>	Redear sunfish	interm	x						
Buffalo Creek	OKLRED-059	46363	27-Jul-10	2	Percidae	<i>Percina caprodes</i>	Logperch	interm	x						
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Catostomidae	<i>Moxostoma</i>	Redhorse sucker	intol	x						x
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Centrarchidae	<i>Pomoxis nigromaculatus</i>	Black crappie	tol			x				
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Cyprinidae	<i>Pimephales notatus</i>	Bluntnose minnow	interm		x					x
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Cyprinidae	<i>Pimephales vigilax</i>	Bullhead minnow	tol		x					
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	x				x		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Buffalo Creek	OKLRED-059	46363	27-Jul-10	1	Percidae	Etheostoma chlorosomum	Bluntnose darter	intol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	87	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	55	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	35	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	18	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	17	Cyprinidae	Campostoma anomalum	Central stoneroller	interm						X	X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	6	Percidae	Percina sciera	Dusky darter	interm	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	5	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	5	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	4	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	4	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	4	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	4	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	3	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	2	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	2	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	2	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X						X
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	2	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol				X			
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	1	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Caney Boggy Creek	OKLRED-005	46404	09-Aug-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol				X		X	
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	150	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	54	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	38	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	22	Cyprinidae	<i>Notropis suttkusi</i>	Rocky Shiner	intol	X						
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	22	Ictaluridae	<i>Pylodictis olivaris</i>	Flathead catfish	tol			X				
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	15	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X				X		
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	12	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	11	Cyprinidae	<i>Cyprinella whipplei</i>	Steelcolor shiner	intol	X						X
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	10	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X				X		
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	5	Percidae	<i>Percina sciera</i>	Dusky darter	interm	X						X
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	3	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	X						
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	2	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	2	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol			X				
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	2	Cyprinidae	<i>Pimephales notatus</i>	Bluntnose minnow	interm		X				X	
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	2	Fundulidae	<i>Fundulus olivaceus</i>	Blackspotted topminnow	interm	X						
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	1	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	X						
Cedar Creek (046)	OKLRED-046	46389	14-Jul-10	1	Percidae	<i>Percina caprodes</i>	Logperch	interm	X						
Cedar Creek (082)	OKLRED-082	46341	26-May-10	122	Cyprinidae	<i>Notropis boops</i>	Bigeye shiner	intol	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	117	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Cedar Creek (082)	OKLRED-082	46341	26-May-10	111	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Cedar Creek (082)	OKLRED-082	46341	26-May-10	50	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X				X		
Cedar Creek (082)	OKLRED-082	46341	26-May-10	19	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X				X		
Cedar Creek (082)	OKLRED-082	46341	26-May-10	11	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	6	Cyprinidae	<i>Notropis suttkusi</i>	Rocky Shiner	intol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Cedar Creek (082)	OKLRED-082	46341	26-May-10	4	Cyprinidae	<i>Cyprinella whipplei</i>	Steelcolor shiner	intol	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	4	Fundulidae	<i>Fundulus notatus</i>	Blackstripe topminnow	interm	X						
Cedar Creek (082)	OKLRED-082	46341	26-May-10	2	Catostomidae	<i>Erimyzon oblongus</i>	Creek chubsucker	intol	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	2	Catostomidae	<i>Hypentelium nigricans</i>	Northern hog sucker	intol	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	1	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	X						
Cedar Creek (082)	OKLRED-082	46341	26-May-10	1	Catostomidae	<i>Moxostoma erythrurum</i>	Golden redhorse	interm	X						X
Cedar Creek (082)	OKLRED-082	46341	26-May-10	1	Centrarchidae	<i>Micropterus dolomieu</i>	Smallmouth bass	intol				X			X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	396	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	139	Cyprinidae	<i>Notropis boops</i>	Bigeye shiner	intol	X						X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	81	Cyprinidae	<i>Cyprinella lutrensis</i>	Red shiner	tol			X				
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	61	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	30	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	24	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X				X		
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	24	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	19	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	12	Cyprinidae	<i>Cyprinella whipplei</i>	Steelcolor shiner	intol	X						X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	9	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	6	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X				X		
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	4	Centrarchidae	<i>Lepomis microlophus</i>	Redear sunfish	interm	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	4	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol				X			
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	3	Centrarchidae	<i>Lepomis humilis</i>	Orangespotted sunfish	tol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	3	Fundulidae	<i>Fundulus notatus</i>	Blackstripe topminnow	interm	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	3	Percidae	<i>Percina sciera</i>	Dusky darter	interm	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	3	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	2	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	2	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol			X				
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Chickasaw Creek	OKLRED-019	46385	14-Jun-10	1	Percidae	Percina caprodes	Logperch	interm	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	247	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	199	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	158	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	136	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	80	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	71	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	66	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	57	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	35	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	26	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	25	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	22	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	17	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	14	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	11	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	10	Centrarchidae	<i>Lepomis gulosus</i>	Warmouth sunfish	tol			X				
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	9	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	9	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X				X		
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	5	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	4	Centrarchidae	<i>Lepomis microlophus</i>	Redear sunfish	interm	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	4	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	4	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	X						
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	3	Centrarchidae	<i>Lepomis gulosus</i>	Warmouth sunfish	tol				X			
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	3	Centrarchidae	<i>Micropterus salmoides</i>	Largemouth bass	tol				X			
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	3	Centrarchidae	Unidentified <i>Lepomis</i> hybrid	Hybrid, green x bluegill sunfish	tol							
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	3	Percidae	<i>Etheostoma spectabile</i>	Orangethroat darter	interm	X						X
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	2	Fundulidae	<i>Fundulus olivaceus</i>	Blackspotted topminnow	interm	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	2	Percidae	<i>Etheostoma spectabile</i>	Orangethroat darter	interm	X						X
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	1	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X
Clear Boggy Creek (053)	OKLRED-053	48645	13-Sep-11	1	Cyprinidae	<i>Notropis stramineus</i>	Sand shiner	interm	X						
Clear Boggy Creek (053)	OKLRED-053	47132	19-May-10	1	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X						X
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	212	Cyprinidae	<i>Cyprinella venusta</i>	Blacktail shiner	interm	X				X		
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	49	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	20	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X				X		
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	19	Ictaluridae	<i>Ameiurus natalis</i>	Yellow bullhead	tol	X				X		
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	10	Ictaluridae	<i>Noturus nocturnus</i>	Freckled madtom	intol	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	3	Centrarchidae	<i>Micropterus punctulatus</i>	Spotted bass	interm			X				X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	3	Percidae	Percina sciera	Dusky darter	interm	X						X
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	2	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	2	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	2	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	2	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X			X	
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	2	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	1	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	1	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Clear Boggy Creek (075)	OKLRED-075	46442	11-Aug-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	47	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X					X	
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	27	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	25	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X			X	
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	14	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			X				
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	7	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	7	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	3	Percidae	Percina phoxocephala	Slenderhead darter	intol	X						X
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	2	Cyprinidae	Macrhybopsis hyostoma	Shoal chub								
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	2	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	1	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Clear Boggy Creek (094)	OKLRED-094	46393	11-Aug-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	144	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	28	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	20	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			x		x		
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	14	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol		x					
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	9	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	8	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	x						
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	4	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x				x		
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	3	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	3	Percidae	Percina sciera	Dusky darter	interm	x					x	
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	2	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	x						
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	1	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	x						
Clear Boggy Creek (097)	OKLRED-097	46047	11-Aug-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	284	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				x		x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	205	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x				x		
Colbert Creek	OKLRED-120	46373	28-Sep-10	140	Cyprinidae	Notropis boops	Bigeye shiner	intol	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	117	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Colbert Creek	OKLRED-120	46373	28-Sep-10	52	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x				x		
Colbert Creek	OKLRED-120	46373	28-Sep-10	36	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	24	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	18	Cyprinidae	Semotilus atromaculatus	Creek chub	interm				x		x	x
Colbert Creek	OKLRED-120	46373	28-Sep-10	11	Percidae	Etheostoma spectabile	Orangethroat darter	interm	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	10	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		x				x	x
Colbert Creek	OKLRED-120	46373	28-Sep-10	9	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						
Colbert Creek	OKLRED-120	46373	28-Sep-10	8	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	x					x	
Colbert Creek	OKLRED-120	46373	28-Sep-10	3	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	x					x	

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Colbert Creek	OKLRED-120	46373	28-Sep-10	2	Cyprinidae	<i>Lythrurus umbratilis</i>	Redfin shiner	interm	X						
Colbert Creek	OKLRED-120	46373	28-Sep-10	1	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	X						
Colbert Creek	OKLRED-120	46373	28-Sep-10	1	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill sunfish	tol	X						
Colbert Creek	OKLRED-120	46373	28-Sep-10	1	Fundulidae	<i>Fundulus olivaceus</i>	Blackspotted topminnow	interm	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	90	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Coon Creek	OKLRED-010	46345	02-Jun-10	48	Percidae	<i>Etheostoma artesiae</i>	Redspotted darter	intol	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	47	Cyprinidae	<i>Notropis suttkusi</i>	Rocky Shiner	intol	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	46	Cyprinidae	<i>Notropis boops</i>	Bigeye shiner	intol	X						X
Coon Creek	OKLRED-010	46345	02-Jun-10	29	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X						X
Coon Creek	OKLRED-010	46345	02-Jun-10	27	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	12	Atherinidae	<i>Labidesthes sicculus</i>	Brook silverside	interm	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	2	Cyprinidae	<i>Pimephales notatus</i>	Bluntnose minnow	interm			X				X
Coon Creek	OKLRED-010	46345	02-Jun-10	2	Ictaluridae	<i>Noturus nocturnus</i>	Freckled madtom	intol	X						
Coon Creek	OKLRED-010	46345	02-Jun-10	1	Catostomidae	<i>Erimyzon oblongus</i>	Creek chubsucker	intol	X						X
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	220	Cyprinidae	<i>Campostoma anomalum</i>	Central stoneroller	interm				X		X	
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	46	Cyprinidae	<i>Notropis boops</i>	Bigeye shiner	intol	X						X
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	24	Ictaluridae	<i>Noturus exilis</i>	Slender madtom	intol	X						X
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	10	Percidae	<i>Etheostoma radiosum</i>	Orangebelly darter	intol	X						X
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	9	Centrarchidae	<i>Lepomis megalotis</i>	Longear sunfish	tol	X						
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	6	Esocidae	<i>Esox americanus</i>	Grass pickerel	interm			X				
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	4	Cyprinidae	<i>Notropis suttkusi</i>	Rocky Shiner	intol	X						
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	1	Catostomidae	<i>Erimyzon oblongus</i>	Creek chubsucker	intol	X						X
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	1	Centrarchidae	<i>Lepomis cyanellus</i>	Green sunfish	tol	X						X

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Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol			X			X	
Cucumber Creek (118)	OKLRED-118	47727	05-Jul-11	1	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X				X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	296	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	100	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	65	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	56	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	52	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	28	Cyprinidae	Notropis boops	Bigeye shiner	intol	X					X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	12	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	11	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	11	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol		X					
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	9	Centrarchidae	Lepomis marginatus	Dollar sunfish	intol	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	7	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X					X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	4	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	4	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	4	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	3	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	2	Catostomidae	Moxostoma	Redhorse sucker	intol	X					X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	2	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X					X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	2	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X				X	
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol			X				
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X			X			
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Esocidae	Esox americanus	Grass pickerel	interm			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x				x		
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			x				
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Percidae	Etheostoma gracile	Slough darter	intol	x						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Percidae	Etheostoma histrio	Harlequin darter	intol	x						
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Percidae	Percina sciera	Dusky darter	interm	x						x
Cypress Creek (072)	OKLRED-072	46349	17-Jun-10	1	Petromyzontidae	Ichthyomyzon gagei	Southern brook lamprey	intol		x					
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	148	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				x		x	x
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	86	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x						x
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	54	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	44	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	33	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x					x	
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	27	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	11	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			x				
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	5	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x					x	
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	3	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	x						
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	2	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	x						
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	1	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	x						x
Dry Creek (054)	OKLRED-054	46388	17-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	x					x	
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	210	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	x						
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	190	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	175	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				x		x	x
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	101	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x				x		
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	36	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x						x

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	34	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	11	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	3	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	1	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Dry Creek (095)	OKLRED-095	46386	15-Jun-10	1	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
East Billy Creek	OKLRED-089	46351	21-Jun-10	164	Cyprinidae	Campostoma anomalum	Central stoneroller	interm						X	X
East Billy Creek	OKLRED-089	46351	21-Jun-10	73	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
East Billy Creek	OKLRED-089	46351	21-Jun-10	65	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
East Billy Creek	OKLRED-089	46351	21-Jun-10	37	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
East Billy Creek	OKLRED-089	46351	21-Jun-10	4	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
East Billy Creek	OKLRED-089	46351	21-Jun-10	4	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
East Billy Creek	OKLRED-089	46351	21-Jun-10	1	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
East Billy Creek	OKLRED-089	46351	21-Jun-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	191	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	150	Cyprinidae	Campostoma anomalum	Central stoneroller	interm						X	X
East Fork Glover River	OKLRED-015	46342	27-May-10	85	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	47	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
East Fork Glover River	OKLRED-015	46342	27-May-10	41	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	37	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
East Fork Glover River	OKLRED-015	46342	27-May-10	14	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
East Fork Glover River	OKLRED-015	46342	27-May-10	7	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
East Fork Glover River	OKLRED-015	46342	27-May-10	4	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
East Fork Glover River	OKLRED-015	46342	27-May-10	2	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
East Fork Glover River	OKLRED-015	46342	27-May-10	1	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	1	Catostomidae	Moxostoma duquesnei	Black redhorse	intol	X						X
East Fork Glover River	OKLRED-015	46342	27-May-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
East Fork Glover River	OKLRED-015	46342	27-May-10	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Glover River	OKLRED-048	46359	30-Jun-10	287	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Glover River	OKLRED-048	46359	30-Jun-10	264	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Glover River	OKLRED-048	46359	30-Jun-10	158	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	116	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	72	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	46	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Glover River	OKLRED-048	46359	30-Jun-10	41	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	33	Cyprinidae	Luxilus chryscephalus	Striped shiner	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	18	Percidae	Etheostoma spectabile	Orangethroat darter	interm	X						X
Glover River	OKLRED-048	46359	30-Jun-10	16	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	13	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X
Glover River	OKLRED-048	46359	30-Jun-10	10	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Glover River	OKLRED-048	46359	30-Jun-10	10	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Glover River	OKLRED-048	46359	30-Jun-10	9	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Glover River	OKLRED-048	46359	30-Jun-10	8	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol				X			
Glover River	OKLRED-048	46359	30-Jun-10	8	Percidae	Etheostoma histrio	Harlequin darter	intol	X						
Glover River	OKLRED-048	46359	30-Jun-10	8	Percidae	Percina caprodes	Logperch	interm	X						
Glover River	OKLRED-048	46359	30-Jun-10	6	Percidae	Percina sciera	Dusky darter	interm	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Glover River	OKLRED-048	46359	30-Jun-10	5	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Glover River	OKLRED-048	46359	30-Jun-10	5	Sciaenidae	Aplodinotus grunniens	Freshwater drum	tol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	4	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Glover River	OKLRED-048	46359	30-Jun-10	4	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Glover River	OKLRED-048	46359	30-Jun-10	4	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol				X			
Glover River	OKLRED-048	46359	30-Jun-10	3	Catostomidae	Moxostoma carinatum	River redhorse	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	3	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Glover River	OKLRED-048	46359	30-Jun-10	2	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Glover River	OKLRED-048	46359	30-Jun-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol					X		
Glover River	OKLRED-048	46359	30-Jun-10	1	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Glover River	OKLRED-048	46359	30-Jun-10	1	Ictaluridae	Noturus miurus	Brindled madtom	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	94	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	90	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	86	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	35	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	32	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	17	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	14	Cyprinidae	Lythrurus fumeus	Ribbon shiner	intol	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	14	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	12	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	11	Ictaluridae	Noturus eleutherus	Mountain madtom	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	10	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	9	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	7	Percidae	Percina sciera	Dusky darter	interm	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	3	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			X				
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	2	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	2	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol				X			
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	1	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Kiamichi River (014)	OKLRED-014	46387	16-Jun-10	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	42	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	11	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	10	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	4	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	4	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	3	Sciaenidae	Aplodinotus grunniens	Freshwater drum	tol	X						X
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	2	Catostomidae	Ictalobus bubalus	Smallmouth buffalo	tol	X						
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	2	Ictaluridae	Ictalurus furcatus	Blue catfish	tol	X			X			
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	1	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Kiamichi River (028)	OKLRED-028	46358	29-Jun-10	1	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	244	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	111	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	63	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	45	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	24	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	16	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	12	Percidae	Etheostoma artesiae	Redspotted darter	intol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	8	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X				X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	6	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	5	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	5	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	4	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	3	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	3	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	2	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	2	Cyprinidae	Cyprinus carpio	Common carp	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	2	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	2	Percidae	Percina caprodes	Logperch	interm	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Catostomidae	Minytrema melanops	Spotted sucker	intol	X						X
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol			X				
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Percidae	Etheostoma chlorosomum	Bluntnose darter	intol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Percidae	Etheostoma gracile	Slough darter	intol	X						
Little Buffalo Creek	OKLRED-132	46374	29-Sep-10	1	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	56	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol		X					
Little River (020)	OKLRED-020	46371	11-Aug-10	21	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X			X			
Little River (020)	OKLRED-020	46371	11-Aug-10	15	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	14	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	11	Cyprinidae	Notropis atherinoides	Emerald shiner	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	10	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Little River (020)	OKLRED-020	46371	11-Aug-10	9	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	8	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
Little River (020)	OKLRED-020	46371	11-Aug-10	6	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	6	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X		X		
Little River (020)	OKLRED-020	46371	11-Aug-10	5	Ictaluridae	Pylodictis olivaris	Flathead catfish	tol			X				
Little River (020)	OKLRED-020	46371	11-Aug-10	5	Percidae	Percina caprodes	Logperch	interm	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	3	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Little River (020)	OKLRED-020	46371	11-Aug-10	2	Catostomidae	Ictiobus bubalus	Smallmouth buffalo	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	2	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Little River (020)	OKLRED-020	46371	11-Aug-10	2	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Little River (020)	OKLRED-020	46371	11-Aug-10	2	Sciaenidae	Aplodinotus grunniens	Freshwater drum	tol	X						X
Little River (020)	OKLRED-020	46371	11-Aug-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol			X				
Little River (020)	OKLRED-020	46371	11-Aug-10	1	Percichthyidae	Morone chrysops	White bass	tol			X				
Little River (020)	OKLRED-020	46371	11-Aug-10	1	Percidae	Percina shumardi	River darter	intol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	184	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	145	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	143	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	143	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	43	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	42	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	17	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	16	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	12	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	8	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	7	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	7	Percidae	Percina sciera	Dusky darter	interm	X						X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	5	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	2	Catostomidae	Moxostoma erythrurum	Golden redhorse	interm	X						X
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	1	Lepisosteidae	Lepisosteus osseus	Longnose gar	tol				X			
McGee Creek (023)	OKLRED-023	46383	04-Jun-10	1	Percidae	Percina caprodes	Logperch	interm	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	300	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	125	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	84	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	53	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	52	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	15	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	12	Percidae	Percina phoxocephala	Slenderhead darter	intol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	11	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	9	Centrarchidae	Lepomis punctatus	Spotted sunfish	intol	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	9	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	8	Cyprinidae	Campostoma anomalum	Central stoneroller	interm						X	X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	7	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	7	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	5	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	5	Percidae	Percina copelandi	Channel darter	intol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	4	Percidae	Percina caprodes	Logperch	interm	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	3	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	3	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	2	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	2	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	2	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	1	Anguillidae	Anguilla rostrata	American eel	intol				X			
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	1	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	1	Esocidae	Esox americanus	Grass pickerel	interm			X				
McGee Creek (051)	OKLRED-051	46392	04-Aug-10	1	Percidae	Etheostoma parvipinne	Goldstripe darter	intol	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	51	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	37	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
North Boggy Creek	OKLRED-007	46405	10-Aug-10	15	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	14	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
North Boggy Creek	OKLRED-007	46405	10-Aug-10	14	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	8	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
North Boggy Creek	OKLRED-007	46405	10-Aug-10	8	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
North Boggy Creek	OKLRED-007	46405	10-Aug-10	5	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X		X	
North Boggy Creek	OKLRED-007	46405	10-Aug-10	5	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
North Boggy Creek	OKLRED-007	46405	10-Aug-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	4	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	2	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
North Boggy Creek	OKLRED-007	46405	10-Aug-10	2	Clupeidae	Dorosoma cepedianum	Gizzard shad	tol			X				
North Boggy Creek	OKLRED-007	46405	10-Aug-10	1	Centrarchidae	Micropterus punctulatus	Spotted bass	interm			X			X	
North Boggy Creek	OKLRED-007	46405	10-Aug-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
North Boggy Creek	OKLRED-007	46405	10-Aug-10	1	Fundulidae	Fundulus olivaceus	Blackspotted topminnow	interm	X						
North Boggy Creek	OKLRED-007	46405	10-Aug-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
North Watson Creek	OKLRED-107	46364	28-Jul-10	119	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
North Watson Creek	OKLRED-107	46364	28-Jul-10	95	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
North Watson Creek	OKLRED-107	46364	28-Jul-10	91	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
North Watson Creek	OKLRED-107	46364	28-Jul-10	77	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
North Watson Creek	OKLRED-107	46364	28-Jul-10	27	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
North Watson Creek	OKLRED-107	46364	28-Jul-10	16	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
North Watson Creek	OKLRED-107	46364	28-Jul-10	8	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
North Watson Creek	OKLRED-107	46364	28-Jul-10	6	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	X						X
North Watson Creek	OKLRED-107	46364	28-Jul-10	1	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Norwood Creek	OKLRED-004	49199	02-Jun-11	24	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	7	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	6	Atherinidae	Menidia beryllina	Inland silverside	tol	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	5	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	4	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Norwood Creek	OKLRED-004	49199	02-Jun-11	3	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Norwood Creek	OKLRED-004	49199	02-Jun-11	3	Esocidae	Esox americanus	Grass pickerel	interm				X			
Norwood Creek	OKLRED-004	49199	02-Jun-11	2	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	2	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Norwood Creek	OKLRED-004	49199	02-Jun-11	2	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Norwood Creek	OKLRED-004	49199	02-Jun-11	1	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Norwood Creek	OKLRED-004	49199	02-Jun-11	1	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	33	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	24	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	16	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Rock Creek	OKLRED-033	46403	28-Jul-10	14	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	14	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	10	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Rock Creek	OKLRED-033	46403	28-Jul-10	10	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm			X				X
Rock Creek	OKLRED-033	46403	28-Jul-10	8	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Rock Creek	OKLRED-033	46403	28-Jul-10	8	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Rock Creek	OKLRED-033	46403	28-Jul-10	7	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Rock Creek	OKLRED-033	46403	28-Jul-10	5	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	4	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Rock Creek	OKLRED-033	46403	28-Jul-10	4	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	2	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	1	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Rock Creek	OKLRED-033	46403	28-Jul-10	1	Cyprinidae	Notemigonus crysoleucus	Golden shiner	tol			X				
Rock Creek	OKLRED-033	46403	28-Jul-10	1	Ictaluridae	Noturus gyrinus	Tadpole madtom	intol	X						
Rock Creek	OKLRED-033	46403	28-Jul-10	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Rock Creek	OKLRED-033	46403	28-Jul-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Salt Creek	OKLRED-101	46391	29-Jul-10	83	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Salt Creek	OKLRED-101	46391	29-Jul-10	66	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	63	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	29	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	13	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Salt Creek	OKLRED-101	46391	29-Jul-10	12	Cyprinidae	Notropis amnis	Pallid shiner	intol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	8	Cyprinidae	Campostoma anomalum	Central stoneroller	interm						X	X
Salt Creek	OKLRED-101	46391	29-Jul-10	8	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Salt Creek	OKLRED-101	46391	29-Jul-10	7	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Salt Creek	OKLRED-101	46391	29-Jul-10	6	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	5	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X						X
Salt Creek	OKLRED-101	46391	29-Jul-10	4	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Salt Creek	OKLRED-101	46391	29-Jul-10	3	Cyprinidae	Notemigonus crysoleucus	Golden shiner	tol			X				

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectivor	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Salt Creek	OKLRED-101	46391	29-Jul-10	3	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Salt Creek	OKLRED-101	46391	29-Jul-10	3	Ictaluridae	Ictalurus punctatus	Channel catfish	tol			X		X		
Salt Creek	OKLRED-101	46391	29-Jul-10	3	Percidae	Etheostoma gracile	Slough darter	intol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	2	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Ictaluridae	Ictalurus furcatus	Blue catfish	tol	X			X			
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Percidae	Etheostoma chlorosomum	Bluntnose darter	intol	X						
Salt Creek	OKLRED-101	46391	29-Jul-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Sandy Creek (041)	OKLRED-041	46394	27-May-10	79	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Sandy Creek (041)	OKLRED-041	46394	27-May-10	57	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Sandy Creek (041)	OKLRED-041	46394	27-May-10	37	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Sandy Creek (041)	OKLRED-041	46394	27-May-10	29	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Sandy Creek (041)	OKLRED-041	46394	27-May-10	24	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
Sandy Creek (041)	OKLRED-041	46394	27-May-10	18	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Sandy Creek (041)	OKLRED-041	46394	27-May-10	11	Cyprinidae	Notropis stramineus	Sand shiner	interm	X						
Sandy Creek (041)	OKLRED-041	46394	27-May-10	8	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X				X		
Sandy Creek (041)	OKLRED-041	46394	27-May-10	7	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Sandy Creek (041)	OKLRED-041	46394	27-May-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Sandy Creek (041)	OKLRED-041	46394	27-May-10	5	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X					X
Sandy Creek (041)	OKLRED-041	46394	27-May-10	4	Cyprinidae	Campostoma anomalum	Central stoneroller	interm			X		X		X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Sandy Creek (041)	OKLRED-041	46394	27-May-10	2	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Sandy Creek (041)	OKLRED-041	46394	27-May-10	1	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Sandy Creek (041)	OKLRED-041	46394	27-May-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X					X	
Sandy Creek (041)	OKLRED-041	46394	27-May-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Sandy Creek (116)	OKLRED-116	49516	19-May-11	30	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	22	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	19	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	17	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Sandy Creek (116)	OKLRED-116	49516	19-May-11	17	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	11	Aphredoderidae	Aphredoderus sayanus	Pirate perch	intol	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	7	Cyprinidae	Notropis atrocaudalis	Blackspot shiner	intol	X						
Sandy Creek (116)	OKLRED-116	49516	19-May-11	6	Esocidae	Esox americanus	Grass pickerel	interm			X				
Sandy Creek (116)	OKLRED-116	49516	19-May-11	3	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Sandy Creek (116)	OKLRED-116	49516	19-May-11	2	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Sandy Creek (116)	OKLRED-116	49516	19-May-11	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Sandy Creek (116)	OKLRED-116	49516	19-May-11	1	Centrarchidae	Pomoxis annularis	White crappie	tol			X				
Sandy Creek (116)	OKLRED-116	49516	19-May-11	1	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Sandy Creek (116)	OKLRED-116	49516	19-May-11	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
Turkey Creek	OKLRED-037	46400	19-Jul-10	61	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Turkey Creek	OKLRED-037	46400	19-Jul-10	60	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
Turkey Creek	OKLRED-037	46400	19-Jul-10	48	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Turkey Creek	OKLRED-037	46400	19-Jul-10	26	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Turkey Creek	OKLRED-037	46400	19-Jul-10	12	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Turkey Creek	OKLRED-037	46400	19-Jul-10	9	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Turkey Creek	OKLRED-037	46400	19-Jul-10	4	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
Turkey Creek	OKLRED-037	46400	19-Jul-10	3	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Turkey Creek	OKLRED-037	46400	19-Jul-10	2	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol			X				
Turkey Creek	OKLRED-037	46400	19-Jul-10	2	Cyprinidae	Phenacobius mirabilis	Suckermouth minnow	intol	X						
Turkey Creek	OKLRED-037	46400	19-Jul-10	2	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Turkey Creek	OKLRED-037	46400	19-Jul-10	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	14	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	11	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	10	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	8	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	8	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Turkey Creek (111)	OKLRED-111	47610	31-May-11	7	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Turkey Creek (111)	OKLRED-111	47610	31-May-11	7	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Turkey Creek (111)	OKLRED-111	47610	31-May-11	5	Cyprinidae	Cyprinella venusta	Blacktail shiner	interm	X						X
Turkey Creek (111)	OKLRED-111	47610	31-May-11	3	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Turkey Creek (111)	OKLRED-111	47610	31-May-11	1	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol							X
Turkey Creek (111)	OKLRED-111	47610	31-May-11	1	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Turkey Creek (111)	OKLRED-111	47610	31-May-11	1	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	42	Poeciliidae	Gambusia affinis	Mosquitofish	tol	X						
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	19	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	14	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	8	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	7	Centrarchidae	Pomoxis annularis	White crappie	tol			x				
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	4	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x				x		
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			x				
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	2	Centrarchidae	Unidentified Lepomis hybrid	Hybrid, green x bluegill sunfish	tol							
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	1	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	x						
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x				x		
Unnamed Creek (021)	OKLRED-021	46401	20-Jul-10	1	Percidae	Etheostoma gracile	Slough darter	intol	x						
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	153	Cyprinidae	Notropis boops	Bigeye shiner	intol	x				x		
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	120	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				x	x		
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	110	Cyprinidae	Notropis suttkusi	Rocky Shiner								
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	48	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	x						
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	36	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	x			x			
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	27	Percidae	Etheostoma radiosum	Orangebelly darter	intol	x				x		
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	18	Esocidae	Esox americanus	Grass pickerel	interm		x					
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	14	Ictaluridae	Noturus exilis	Slender madtom	intol	x					x	
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	11	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	x				x		
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	7	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		x				x	
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	5	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	x						
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	4	Atherinidae	Labidesthes sicculus	Brook silverside	interm	x						
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	4	Catostomidae	Erimyzon oblongus	Creek chubsucker	intol	x					x	
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	2	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			x				
Unnamed Creek (098)	OKLRED-098	46346	03-Jun-10	1	Percidae	Etheostoma nigrum	Johnny darter	intol	x						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	137	Poeciliidae	Gambusia affinis	Mosquitofish	tol	x						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
Waterhole Creek	OKLRED-060	46348	16-Jun-10	106	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	67	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	66	Cyprinidae	Cyprinella lutrensis	Red shiner	tol			X				
Waterhole Creek	OKLRED-060	46348	16-Jun-10	61	Cyprinidae	Pimephales vigilax	Bullhead minnow	tol			X				
Waterhole Creek	OKLRED-060	46348	16-Jun-10	31	Centrarchidae	Lepomis macrochirus	Bluegill sunfish	tol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	10	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X						X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	5	Centrarchidae	Lepomis gulosus	Warmouth sunfish	tol				X			
Waterhole Creek	OKLRED-060	46348	16-Jun-10	5	Centrarchidae	Lepomis humilis	Orangespotted sunfish	tol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	5	Centrarchidae	Micropterus salmoides	Largemouth bass	tol				X			
Waterhole Creek	OKLRED-060	46348	16-Jun-10	5	Centrarchidae	Pomoxis annularis	White crappie	tol				X			
Waterhole Creek	OKLRED-060	46348	16-Jun-10	3	Catostomidae	Ictiobus bubalus	Smallmouth buffalo	tol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	3	Centrarchidae	Lepomis microlophus	Redear sunfish	interm	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	2	Cyprinidae	Notemigonus crysoleucas	Golden shiner	tol			X				
Waterhole Creek	OKLRED-060	46348	16-Jun-10	2	Fundulidae	Fundulus notatus	Blackstripe topminnow	interm	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	2	Percidae	Etheostoma gracile	Slough darter	intol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Catostomidae	Moxostoma	Redhorse sucker	intol	X						X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Ictaluridae	Ameiurus melas	Black bullhead	tol	X						X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X						X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Lepisosteidae	Lepisosteus oculatus	Spotted gar	tol				X			
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
Waterhole Creek	OKLRED-060	46348	16-Jun-10	1	Sciaenidae	Aplodinotus grunniens	Freshwater drum	tol	X						X

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectiv	Planktivor	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	224	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	173	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	164	Cyprinidae	Campostoma anomalum	Central stoneroller	interm					X		X
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	53	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X					X	
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	35	Cyprinidae	Notropis suttkusi	Rocky Shiner	intol	X						
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	9	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X						X
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	6	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X					X	
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	5	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	3	Centrarchidae	Micropterus punctulatus	Spotted bass	interm				X			X
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	2	Ictaluridae	Noturus nocturnus	Freckled madtom	intol	X						
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	1	Centrarchidae	Micropterus dolomieu	Smallmouth bass	intol				X			X
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	1	Centrarchidae	Micropterus salmoides	Largemouth bass	tol			X				
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	1	Cyprinidae	Cyprinella whipplei	Steelcolor shiner	intol	X					X	
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	1	Cyprinidae	Pimephales notatus	Bluntnose minnow	interm		X				X	
West Fork Glover River (077)	OKLRED-077	46356	28-Jun-10	1	Percidae	Percina sciera	Dusky darter	interm	X						X
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	164	Cyprinidae	Notropis boops	Bigeye shiner	intol	X						X
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	63	Cyprinidae	Campostoma anomalum	Central stoneroller	interm				X			X
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	44	Centrarchidae	Lepomis megalotis	Longear sunfish	tol	X						
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	34	Centrarchidae	Lepomis cyanellus	Green sunfish	tol	X				X		
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	29	Percidae	Etheostoma radiosum	Orangebelly darter	intol	X					X	
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	20	Ictaluridae	Ameiurus natalis	Yellow bullhead	tol	X				X		
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	4	Atherinidae	Labidesthes sicculus	Brook silverside	interm	X						
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	4	Cyprinidae	Lythrurus umbratilis	Redfin shiner	interm	X						

Site Name	WBID	SAMPLEID	Date	Number	Family	Species	Vern Name	Combined Tolerance	Insectivore	Planktivore	Omnivore	Piscivore	Herbivore	Generalist	lithophilic Spawners
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	2	Esocidae	Esox americanus	Grass pickerel	interm				X			
West Terrapin Creek	OKLRED-026	46384	08-Jun-10	2	Ictaluridae	Ameiurus melas	Black bullhead	tol	X				X		

APPENDIX C MACROINVERTEBRATE DATA

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	29	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	25	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	15	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	7	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	6	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3						X		
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophila	5							X	
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	Beech Creek	OK410210-06-0320G	47195	7/12/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4				X				

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	28	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	18	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	8	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	3	ARTHROPODA	Insecta	Trichoptera	Glossosomatidae	Agapetus	0							X	
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3			X					
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Ephemerella	1		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimilium	6	X							
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Agnetina=Phasgan	1					X			
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Beech Creek	OK410210-06-0320G	48570	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Heptagenia	4			X					
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Polycentropus	6	X				X			
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus						X			
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Diamesinae	6		X						
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4	X	X					X	
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Clioperla	2					X			
Riffle	Big Cedar Creek	OK410310-02-0100D	48567	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	25	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	25	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	11	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X					X	
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	4	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4						X		
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3					X			
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilia	5							X	
Riffle	Big Eagle Creek	OK410210-06-0160L	47193	7/12/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	43	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	23	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	5	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	3	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1						X		
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Big Eagle Creek	OK410210-06-0160L	48568	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	52	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	4	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	3	ARTHROPODA	Insecta	Diptera	Sciaridae		6					X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Paracymus	7			X		X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Aulodrilus	8		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Stilobezzia	6					X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Ephydriidae		6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3					X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48550	9/14/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	48	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	11	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	8	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimilium	6	X							
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Black Fork of Little River	OK410210-03-0020C	48565	1/6/2011	W	1	NEMERTEA	Enopla	Hoploneurmertea	Tetrastemmatidae	Prostoma						X			
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	43	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	17	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	8	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	5	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1						X		
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	4	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						

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Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	4	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	3	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X				X		
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	2	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6				X				
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	2	NEMERTEA	Enopla	Hoploneuriata	Tetrastemmatidae	Prostoma						X			
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Odonata	Libellulidae	Erythemis	9				X				
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestes	1			X					
Riffle	Bokchito Creek	OK410600-01-0090G	48596	3/3/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	86	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	5	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	4	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					

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Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ANNELIDA	Oligochaeta	Haplotaixida	Lumbricidae		5		X						
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7					X			
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Riffle	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	PLATYHELMINTHES	Turbellaria	Tricladida	Planariidae	Dugesia	4			X					
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	20	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	17	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	11	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	Buck Creek	OK410310-03-0420C	47225	7/19/2010	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1				X				
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	24	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	18	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	8	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	5	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	3	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Hydroperla	2					X			
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2		X						
Riffle	Buck Creek	OK410310-03-0420C	48592	3/3/2011	W	1	NEMERTEA	Enopla	Hoploneurida	Tetrastemmatidae	Prostoma					X				
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	36	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	25	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	8	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	6	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Buck Creek	OK410310-03-0420C	49817	3/1/2012	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	11	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	10	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	8	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Eurylophella	1		X						
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Riffle	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	26	ARTHROPODA	Insecta	Coleoptera	Haliplidae	Peltodytes	2							X	
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	18	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	8	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caddo Creek	OK410600-01-0140G	48597	3/3/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	49	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	17	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	7	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	2	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	2	ARTHROPODA	Insecta	Diptera	Chaoboridae	Chaoborus	8					X			
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	40	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	10	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X				X		
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	7	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3				X				
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	49	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	25	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus					X				
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Sialidae	Sialis	4				X				
Riffle	Caney Creek (lower)	OK410400-02-0200G	47228	7/19/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	59	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	20	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Stylaria	8		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Hexagenia	4		X						
Riffle	Caney Creek (lower)	OK410400-02-0200G	48595	3/3/2011	W	1	ARTHROPODA	Insecta	Hemiptera	Corixidae	Trichocorixa	8						X		
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	29	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	29	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	17	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	7	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1				X				
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	MOLLUSCA	Gastropoda	Basommatophora	Ancylidae	Ferrissia	6						X		
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	34	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	15	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	11	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Ilyodrilus	8		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	3	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae			5		X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	ARTHROPODA	Crustacea	Copepoda						X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	NEMATODA										X			
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3					X			
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Nectopsyche	4			X					
Riffle	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	58	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	11	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	7	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	5	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	3	ARTHROPODA	Insecta	Plecoptera											
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Ephydriidae	Hydrellia	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Cedar Creek	OK410300-03-0020M	48551	9/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae		1				X				
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	26	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	24	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	13	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	6	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3				X				
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6				X				
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3				X				
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Eurylophella	1		X						
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Cedar Creek	OK410300-03-0020M	48563	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	47	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	5	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	4	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	3	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae		2		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	2	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						

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Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6				X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Mesoveliidae	Mesovelia					X				
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1					X			
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Cloudy Creek	OK410210-02-0300C	47292	8/24/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	35	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	7	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	5	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							

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Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	3	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	2	NEMERTEA	Enopla	Hoploneurida	Tetrastemmatidae	Prostoma						X			
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Cloudy Creek	OK410210-02-0300C	48561	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Hydroperla	2					X			
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	20	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	15	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	7	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2						X		
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Perlidae	Clioperla	2					X			
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	4	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatomida	3					X			
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Chloroperlidae	Alloperla	1				X				
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4						X		
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Cow Creek	OK410210-06-0350G	48569	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	60	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	7	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	5	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3					X			
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	4	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Eurylophella	1		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Cypress Creek	OK410210-01-0070G	48559	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila	0					X			
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	52	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	19	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	14	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	4	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacylloepus	4		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilà	5						X		
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1					X			
Riffle	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Progomphus	1					X			
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	36	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	27	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	18	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	15	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	12	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6						X		
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3			X					
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Gomphus	1					X			
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	MOLLUSCA	Gastropoda	Neotaenioglossa	Hydrobiidae		8							X	
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	26	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	23	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	4	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3				X				
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae		2		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48547	9/13/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	27	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	25	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	10	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestidae	1			X					
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	8	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	6	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	3	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						

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Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3				X				
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Ectopria	4							X	
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Ephemerella	1		X						
Riffle	East Fork of Glover River	OK410210-09-0010G	48556	1/5/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	71	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	31	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	16	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8					X			
Riffle	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2				X				
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	80	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	5	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	3	ARTHROPODA	Crustacea	Copepoda						X					
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	2	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1		X						
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	39	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	25	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	4	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Horse Creek	OK410400-01-0040G	48602	3/3/2011	W	1	NEMERTEA	Enopla	Hoploneurida	Tetrastemmatidae	Prostoma						X			
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	48	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	43	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	19	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Island Bayou	OK410700-00-0040G	48598	3/3/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4					X			
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	40	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	22	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	18	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	2	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6						X		
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Gomphus	1						X		
Riffle	Leader Creek	OK410400-03-0370B	48542	8/5/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4						X	X	
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	40	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	33	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	22	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Limnephilus	4							X	
Riffle	Leader Creek	OK410400-03-0370B	48583	2/23/2011	W	1	MOLLUSCA	Gastropoda	Neotaenioglossa	Hydrobiidae		8							X	
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	81	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	39	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					

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Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	12	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	3	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	3	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X							
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X				X		
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus							X		
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Forcipomyia	6					X	X		
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	ARTHROPODA	Insecta	Hemiptera	Saldidae							X			
Riffle	Leader Creek	OK410400-03-0370B	47612	6/20/2011	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	31	MOLLUSCA	Gastropoda	Neotaenioglossa	Hydrobiidae		8						X		
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	21	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	10	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	6	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					

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Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	3	NEMATODA								X					
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Riffle	Leader Creek	OK410400-03-0370B	49813	3/1/2012	W	1	NEMERTEA	Enopla	Hoploneurmertea	Tetrastemmatidae	Prostoma									
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	58	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	21	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	9	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4							X	
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacylloepus	4		X						

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Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	46	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	28	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	7	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8					X			
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Haliphilidae	Peltodytes	2							X	
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3					X			
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3		X						
Riffle	Lukfata Creek	OK410210-07-0010G	48573	1/6/2011	W	1	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	76	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	28	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8					X			
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilae	5							X	
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	29	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	28	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	9	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	9	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	7	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	6	PLATYHELMINTHES	Turbellaria	Tricladida	Planariidae	Dugesia	4			X					
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X					X	
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4						X		
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9						X		
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	NEMERTEA	Enopla	Hoploneurmertea	Tetrastemmatidae	Prostoma							X		
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	35	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	15	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	11	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	8	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	5	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	3	PLATYHELMINTHES	Turbellaria	Tricladida	Planariidae	Dugesia	4			X					
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophila	5							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6				X				
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X				X		
Riffle	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Nigronia	4					X			
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	52	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	44	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	4	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae			5		X					
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronycthus	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6					X			
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8				X				
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	40	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Mineral Bayou	OK410600-01-0300G	48589	2/24/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	99	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	2	MOLLUSCA	Gastropoda	Neotaenioglossa	Hydrobiidae		8							X	
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Riffle	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	36	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	34	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	21	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							

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Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	10	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X					X	
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	5	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4						X		
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	2	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6						X		
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3						X		
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Forcipomyia	6					X	X		
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48541	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	53	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	23	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						

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Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6				X				
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1				X				
Riffle	North Boggy Creek	OK410400-08-0010M	48591	2/24/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	117	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	13	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7				X				
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6				X				
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2				X				
Riffle	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	35	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	12	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	10	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	10	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae	Choroterpes	2		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	2	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9							X	
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	One Creek	OK410300-03-0060F	48552	9/14/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	34	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Acari	Arcarina	Torrenticolidae	Torrenticola	4						X		
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestidae	1			X					
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	One Creek	OK410300-03-0060F	48564	1/6/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Polycentropus	6	X				X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	27	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	17	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	16	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	13	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X					X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	7	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatomata	3					X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	47197	7/13/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Lepidostomatidae	Lepidostoma	1							X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	37	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	9	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	9	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	4	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	4	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	3	ARTHROPODA	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila	0					X			
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Empididae	Clinocera	6				X				
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3				X				
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2				X				
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X				X		
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Glossosomatidae	Agapetus	0						X		
Riffle	Rock Creek (McCurtain)	OK410200-03-0010G	48572	1/5/2011	W	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	19	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	14	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	10	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	6	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	3	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8				X				
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X				X		
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	2	ARTHROPODA	Insecta	Diptera	Chaoboridae	Chaoborus	8				X				
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Crustacea	Copepoda						X					

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Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9				X				
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1				X				
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2				X				
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X							
Riffle	Rock Creek (Pushmataha)	OK410300-02-0190G	48562	1/6/2011	W	1	NEMERTEA	Enopla	Hoploneurtea	Tetrastemmatidae	Prostoma					X				
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	31	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	30	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	29	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	17	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	10	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6				X				
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	8	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5					X			
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1					X			
Riffle	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	29	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	25	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	23	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	22	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	10	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	7	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Branchiura	10		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Hydroperla	2					X			
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	3	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Slavina	8		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Nais	8		X						
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	54	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	34	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	4	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6					X			
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilà	5							X	
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Riffle	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	50	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	15	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	10	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6						X		
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2						X		
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Riffle	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	NEMERTEA	Enopla	Hoploneurtemta	Tetrastemmatidae	Prostoma							X		
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	43	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	19	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	13	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	8	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	6	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Acari	Arcarina			4					X			
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydraenidae	Octhebius	4					X			
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	79	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	12	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	2	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Crustacea	Copepoda						X					
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	30	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	22	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	16	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	8	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	6	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4		X						
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5	X							
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Tenmile Creek	OK410300-03-0270C	47226	7/19/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4				X				
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	53	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	21	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	17	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6					X			
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Tenmile Creek	OK410300-03-0270C	48593	3/3/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	46	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	11	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	9	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	7	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	6	ARTHROPODA	Insecta	Plecoptera	Perlidae	Hydroperla	2				X				
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	5	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	2	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8				X				
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Ochrotrichia	4		X						
Riffle	Tenmile Creek	OK410310-02-0100D	48567	1/5/2011	W	42	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Riffle	Tenmile Creek	OK410310-02-0100D	48567	1/5/2011	W	18	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	40	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	22	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	18	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae		6				X				
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Terrapin Creek	OK410210-02-0150G	48548	9/13/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Gomphus	1				X				
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	42	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	14	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	6	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Ephemerella	1		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulium	6	X							
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2					X			
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Terrapin Creek	OK410210-02-0150G	48558	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila	0					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	39	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	30	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	3	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus						X			
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Waterhole Creek	OK410100-01-0340D	47200	7/13/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	69	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	28	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	14	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Waterhole Creek	OK410100-01-0340D	48575	1/6/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	23	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	21	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	17	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4						X		
Riffle	West Fork Glover River	OK410210-08-0010M	48554	9/20/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9						X		
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	26	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	24	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	14	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	8	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	8	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	4	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulium	6	X							
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	4	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila	0					X			
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3			X					
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	West Fork Glover River	OK410210-08-0010M	48557	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1					X			
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	92	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	11	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X							
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae			5		X					
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Chrysops	6		X			X			
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	72	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	42	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X		X				
Riffle	Beaver Creek	OKLRED-108	48553	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Ephydriidae		6		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	38	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	20	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Branchiura	10		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	15	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	11	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	11	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	10	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	9	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	9	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Psychomyiidae	Psychomyia	2								
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X			X			
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Diptera	Athericidae	Atherix	2				X		X		
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	33	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacylloepus	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	22	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	16	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	13	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X					X	
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	8	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	5	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4							X	
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Neoelmis	4		X						
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1						X		
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X					X	
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X				X		
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4								
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	1	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6								
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophila	5								
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4								
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Blue River (034)	OKLRED-034	46367	8/3/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	32	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	24	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	15	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	13	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X						
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X		X				
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X						X	
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	2	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilida	5								
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Acari	Acarina	Hygrobatidae	Atractides	4								
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X		X			
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X			X			
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X	X		
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1								
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Glossosomatidae	Agapetus	0							X	
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Blue River (086)	OKLRED-086	46368	8/4/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	59	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	13	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	7	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X				X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus									
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X			X			
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X						
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1								
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	29	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X				X			
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	23	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X			
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	22	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	9	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	7	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X				X			
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Forcipomyia	6								
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6	X							
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Chrysops	6	X							
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3		X		X				
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4		X						
Riffle	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X		X				
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	32	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	14	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	11	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	8	ARTHROPODA	Insecta	Diptera	Tipulidae	Pseudolimnophila	3								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	6	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	6	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	4	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	2	ARTHROPODA	Acari	Acarina			4								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X						X	

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Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	2	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophila	5								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Lumbricidae		5		X		X				
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae		2		X						
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Sialidae	Sialis	4								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Lanthus	1								
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Boktuklo Creek	OKLRED-110	46370	8/10/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Polycentropus	6	1				X			
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	68	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	32	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	16	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X			
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	7	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X			X			
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	2	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X					X	
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X			X	X		
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	29	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	23	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	16	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	13	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X		X			
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	3	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Cedar Creek (046)	OKLRED-046	47211	7/19/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3								
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	45	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	21	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	15	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	11	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X					X	
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	5	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4				X	X			
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3								
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X						X	
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6				X				
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Pseudolimnophila	3								
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Cedar Creek (082)	OKLRED-082	47290	8/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	40	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	20	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	18	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	16	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acpennina	4			X					
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	7	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	3	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6								
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	2	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Atrichopogon	6		X					X	
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Tropisternus	7								

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Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae	Neochoroterpes	2		X			X			
Riffle	Chickasaw Creek	OKLRED-019	47166	6/23/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Microvelia	8								
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	39	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	30	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	20	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X		X			
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	8	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X			X			
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X					X	
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X			
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X						X	
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	31	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	26	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	17	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	13	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	8	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X			X			
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							

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Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacylloepus	4		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X					X		
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Paracloeodes	4								
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		1						
Riffle	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Smicridea	4	X							
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	37	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	15	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	11	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	6	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X				X			
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	4	ARTHROPODA	Insecta	Odonata	Gomphidae	Progomphus	1								
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3								
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Leucrocuta	4		X						
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					

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Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X						X	
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X						X	
Riffle	Clear Boggy Creek (097)	OKLRED-097	46047	8/11/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	43	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	29	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4								
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	3	ARTHROPODA	Insecta	Plecoptera	Leuctridae	Leuctra	0					X			
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X			X			
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X			X			
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Pseudolimnophila	3								
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5								
Riffle	Coon Creek	OKLRED-010	48546	9/13/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Sialidae	Sialis	4								
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	21	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	19	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X				X	X		
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	14	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	10	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4					X			
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	9	ARTHROPODA	Insecta	Plecoptera	Leuctridae	Leuctra	0								
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X			X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X			X			
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3								
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae		2		X						
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X				X	
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Forcipomyia	6								
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6					X			
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6						X		
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X				X		
Riffle	Cucumber Creek (118)	OKLRED-118	47727	7/5/2011	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Lanthus	1						X		
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	19	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X					X	
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	12	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	10	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	8	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X				X		
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	4	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	3	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Dina	8								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae	Choroterpes	2		X						
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Pristina	8	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Crustacea	Cladocera				X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6	X					X		
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6							X	
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Aeshnidae	Boyeria	3								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Gomphus	1								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8								
Riffle	Cypress Creek (072)	OKLRED-072	48549	9/14/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	68	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	20	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6	X							
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4	X			X				

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4								
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	2	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophilà	5								
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8				X				
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Slavina	8		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6				X				
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Microvelia	8								
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Dry Creek (054)	OKLRED-054	47168	6/23/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	29	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X		X				
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	21	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4							X	
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	9	ARTHROPODA	Insecta	Odonata	Gomphidae	Lanthus	1					X			
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X			X			
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X			
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Lumbricidae		5		X			X			

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Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Dolichopodidae	Hydrophorus	4								
Riffle	East Fork Glover River	OKLRED-015	48545	9/13/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Tabanus	6								
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	53	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	29	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	24	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Acari	Arcarina	Torrenticolidae	Torrenticola	4							X	
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X			X		
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X		X			
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X						X	
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Psephenidae	Psephenus	4								
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6								
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Glossosomatidae	Agapetus	0						X		
Riffle	Glover River	OKLRED-048	47293	8/24/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	33	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	21	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	11	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X		X				
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	10	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X			X				
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X					X	
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4								
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		1						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X				X			
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Saldidae										
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4								
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	24	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	23	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	18	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							

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Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	13	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X		X				
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	3	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6				X				
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1								
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X				X	
Riffle	McGee Creek (023)	OKLRED-023	47134	6/1/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	57	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	35	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	17	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X					X	
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X		X			
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X				X		
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Riffle	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	30	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	25	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X		X			
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	25	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X				X			
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X			
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	4	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		1						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8								
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7								
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Paracloeodes	4								
Riffle	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Neoperla	1						X		
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	44	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	20	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X			
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	7	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X				X			
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	3	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Branchiura	10		X						
Riffle	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	29	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X					X	
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	21	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	13	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X		X			
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	7	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X			
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	5	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Chaetogaster	6		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X			X	X		
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus							X		
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Dasyhelea	6		X				X		
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Chrysops	6		1			X			
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Riffle	Turkey Creek (111)	OKLRED-111	47610	5/31/2011	S	1	ARTHROPODA	Insecta	Hemiptera	Corixidae	Trichocorixa	8								
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	22	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	16	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	13	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X			
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X		X			
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						

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Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	3	ARTHROPODA	Insecta	Diptera	Ephydriidae		6		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	2	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Pristina	8		X					X	
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	1	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X					X	
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X					X		
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4							X	
Riffle	West Fork Glover River (077)	OKLRED-077	48555	9/20/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	80	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	5	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7							X	
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	4	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7							X	
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	31	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	7	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulium	6	X							
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	6	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	4	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	3	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Diptera	Chaoboridae	Chaoborus	8						X		
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Ephemerella	1		X						
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Sveg	Buffalo Creek	OK410210-06-0020G	48571	1/5/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	84	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	16	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	6	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	3	ARTHROPODA	Crustacea	Copepoda					X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Haliphilidae	Peltodytes	2							X	
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae	Paraleptophlebia	2		X						
Sveg	Caddo Creek	OK410600-01-0140G	49808	2/22/2012	W	1	MOLLUSCA	Pelecypoda	Venerida	Sphaeriidae	Sphaerium	8	X							

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Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	61	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	9	ARTHROPODA	Crustacea	Copepoda					X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestes	1			X					
Sveg	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	27	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	19	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	6	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	6	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	5	ARTHROPODA	Crustacea	Copepoda					X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	5	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7				X				
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	4	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Palaemonidae	Palaemonetes	6		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Tropisternus	7					X			
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae		5							X	
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Sveg	Caney Creek (lower)	OK410400-02-0200G	49803	2/22/2012	W	1	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X							
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	45	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	15	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	7	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	7	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	5	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	5	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Haliphilidae	Peltodytes	2							X	

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Sveg	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2				X				
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	54	ARTHROPODA	Crustacea	Copepoda					X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	38	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	9	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	7	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Tropisternus	7				X				
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	6	ARTHROPODA	Insecta	Diptera	Culicidae	Culiseta			X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Haliphilidae	Peltodytes	2							X	
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Culicidae	Aedes			X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Collembola	Isotomidae	Isotomurus			X						
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Hemiptera	Belostomatidae	Lethocerus	5					X			
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Sveg	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Planorbla	6							X	
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	53	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	42	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Stilobezzia	6				X				
Sveg	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	86	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	41	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	4	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Isoperla	2			X					
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	1	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Lick Creek	OK410400-01-0130G	49805	2/22/2012	W	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae		5						X		
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	21	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	13	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	10	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Staphylinidae						X				
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Hebridae	Hebrus						X			
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	65	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	2	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5					X			
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Collembola	Isotomidae	Isotomurus			X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			
Sveg	McGee Creek	OK410400-07-0010C	48594	3/3/2011	W	1	NEMATODA										X			
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	55	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	13	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			

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Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	9	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	4	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5				X				
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Dineutus					X				
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Gyretes					X				
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	McGee Creek	OK410400-07-0010C	47630	6/27/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	50	COELENTERATA	Hydrozoa	Hydroida	Hydridae	Hydra						X			
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	4	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	3	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Stylaria	8		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chaoboridae	Chaoborus	8					X			
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Sveg	McGee Creek	OK410400-07-0010C	49804	2/22/2012	W	1	NEMATODA										X			
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	17	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	17	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	11	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	8	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	6	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Staphylinidae							X			
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	2	ARTHROPODA	Insecta	Diptera	Ceratopogonidae		6					X			
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrochidae	Hydrochus	7							X	
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Hexagenia	4		X						
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Gerridae	Rheumatobates					X				
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Triaenodes	4							X	
Sveg	Mineral Bayou	OK410600-01-0300G	48539	8/4/2010	S	1	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	85	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	7	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	6	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	5	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Stylaria	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3			X					
Sveg	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	73	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	30	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						

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Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	8	ARTHROPODA	Crustacea	Copepoda				X							
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	4	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7				X				
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7				X				
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Sveg	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Odonata	Libellulidae	Miathyria	9					X			
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	18	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	13	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	8	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	5	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	5	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulium	6	X							
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae			5		X					
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	3	ARTHROPODA	Insecta	Trichoptera	Rhyacophilidae	Rhyacophila	0					X			
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	3	NEMERTEA	Enopla	Hoploneurida	Tetrastemmatidae	Prostoma						X			
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Eurylophella	1		X						
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2					X			
Sveg	Rock Creek (Pushmataha)	OK410300-02-0190G	48578	2/18/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	20	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	13	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	7	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	4	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ARTHROPODA	Insecta	Diptera	Ceratopogonidae		6					X			
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1					X			
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Diptera	Culicidae	Anopheles			X						

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Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	42	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	25	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	4	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Stylaria	8		X						
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7					X			
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Sveg	Sand Creek	OK410700-00-0260G	48588	2/24/2011	W	1	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5					X			
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	15	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	13	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	8	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	4	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8	X							
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6	X							
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	3	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9				X				
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7				X				
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Hydraenidae	Hydraena	4				X				
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	2	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4				X	X			
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Crustacea	Isopoda			8		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Collembola	Isotomidae	Isotomurus			X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Paracloeodes	4							X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5				X				
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3							X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Triaenodes	4							X	
Sveg	Sand Creek	OK410700-00-0260G	47616	6/21/2011	S	1	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	38	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	34	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	9	ANNELIDA	Oligochaeta	Haplotaixida	Naididae	Slavina	8		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	8	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	8	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	6	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7						X		
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	4	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ANNELIDA	Oligochaeta	Haplotaixida	Tubificidae	Limnodrilus	10		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ARTHROPODA	Crustacea	Copepoda						X					
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7						X		
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7						X		
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Gomphus	1					X			
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8							X	
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Sveg	Sand Creek	OK410700-00-0260G	49442	1/24/2012	W	1	PLATYHELMINTHES	Turbellaria	Tricladida	Planariidae	Dugesia	4			X					
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	25	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	18	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	10	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	8	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae		4		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Acari	Arcarina	Torrenticolidae	Torrenticola	4					X			
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Halipidae	Peltodytes	2							X	
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Sialidae	Sialis	4					X			
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Sveg	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Philopotamidae	Chimarra	3	X							
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	28	ARTHROPODA	Crustacea	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	17	ARTHROPODA	Amphipoda	Talitridae	Hyalella	Hyalella	8		X						

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Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	16	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	11	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestidae	1			X					
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Haliphilidae	Peltodytes	2							X	
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	4	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	2	ARTHROPODA	Insecta	Odonata	Libellulidae	Perithemis	9						X		
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Isoperla	2			X					
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7					X			
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Erpetogomphus	1					X			
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Sveg	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	NEMATODA										X			
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	29	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	12	ARTHROPODA	Insecta	Plecoptera	Perlidae	Isoperla	2			X					
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	9	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	7	ARTHROPODA	Crustacea	Copepoda						X					

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Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7				X				
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7				X				
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Laccophilus	7				X				
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Halipidae	Peltodytes	2							X	
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Sveg	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	108	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	11	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	9	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	4	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Clioperla	2				X				
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	20	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X						
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	16	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X		X				
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	11	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	8	ARTHROPODA	Insecta	Coleoptera	Staphylinidae										
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X					
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X		X				
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	3	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X			X			
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Paracymus	7			X			X		
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Hexagenia	4		X						
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Nectopsyche	4			X					
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacylloepus	4		X			X			
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Diptera	Stratiomyidae	Odontomyia	8		X			X			
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X	X				

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Cicadellidae								1		
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	Blue River (025)	OKLRED-025	46366	8/2/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Polycentropus	6	X				X			
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	27	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	17	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpanna	4			X					
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X		X			
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	3	MOLLUSCA	Gastropoda	Neotaenioglossa	Hydrobiidae		8							X	
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	3	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8								
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	3	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Sphaerium	8	X				X			
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	2	MOLLUSCA	Pelecypoda	Veneroida	Sphaeriidae	Pisidium	6	X				X			
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X			X		X	
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X			X			
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6								
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Hemiptera	Corixidae	Trichocorixa	8								

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1		X		X				
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3								
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X			X				
Sveg	Bois d' Arc Creek (131)	OKLRED-131	47578	5/17/2011	S	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Helisoma	6								
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	35	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	20	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	16	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	8	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X						X	
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9								
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Halipidae	Peltodytes	2								
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7								
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Tipula	3		X						
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X			X			
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X					X	
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Sveg	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Helicopsychidae	Helicopsyche	3					X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	20	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	11	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	10	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	9	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X				X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	7	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X	X		
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X				X	
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Smicridea	4	X							
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	4	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Hexacyllopus	4		X			X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Staphylinidae										
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetus	4		X			X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5					X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae		6					X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X	X		
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X		X			
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Leptophlebiidae		2		X						
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Cicadellidae										
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae	Petrophila	5								
Sveg	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4					X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	21	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	12	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8								
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	11	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X			X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X		X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X			X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Staphylinidae										
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X			X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Gyretes									
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Nectopsyche	4			X					
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Ancyronyx	4			X					
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X						
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X					
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X				X			
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X				X		
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X						X	
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X			X	X		
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Hebridae	Merragata									
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Mesovelidae	Mesovelia									
Sveg	Kiamichi River (014)	OKLRED-014	47167	6/23/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Nigronia	4								
Sveg	McGee Creek	OKLRED-051	47240	8/9/2010	S	58	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X			X			
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	13	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X						X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	11	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	8	ARTHROPODA	Insecta	Coleoptera	Gyrinidae	Gyretes									
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	6	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	6	ARTHROPODA	Insecta	Odonata	Calopterygidae	Hetaerina	5						X		
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	4	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	3	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	3	ARTHROPODA	Insecta	Hemiptera	Cicadellidae										
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Tropisternus	7								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X				X		
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	2	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ANNELIDA	Oligochaeta	Haplotauxida	Naididae	Slavina	8		X						
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Acari	Arcarina	Hygrobatidae	Atractides	4							X	
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X				X		
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Ischnura	9								
Sveg	McGee Creek (051)	OKLRED-051	47240	8/9/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	27	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X				X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X			X			
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	16	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	8	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		1						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X					X	
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X						X	
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	3	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8								
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X		X			
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Helophoridae	Helophorus	7								
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Tropisternus	7								
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae		6								
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X			X			
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Diptera	Culicidae	Anopheles		X							
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X			X			
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9							X	
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4								

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Sveg	Sandy Creek (041)	OKLRED-041	46394	5/27/2010	S	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Gyraulus	8						X		
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	99	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	4	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Lumbricidae		5		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Hexatoma	3						X		
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Bokchito Creek	OK410600-01-0090G	49807	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Isoperla	2			X					
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	32	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	13	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	6	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Stylaria	8		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	6	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Taeniopteryx	2		X					X	
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	2	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Diptera	Chaoboridae	Chaoborus	8					X			
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Caney Boggy Creek	OK410400-06-0120G	48582	2/23/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Cyrnellus	6	X							
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	49	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	7	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	6	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	3	ARTHROPODA	Crustacea	Copepoda					X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Stilobezzia	6					X			
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ANNELIDA	Hirudinea	Pharyngobdellida	Erpobdellidae	Mooreobdella	8					X			
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Crustacea	Cladocera				X							
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Caney Boggy Creek	OK410400-06-0120G	49811	2/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestes	1			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	33	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	21	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	17	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	11	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	5	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6					X			
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	48590	2/24/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	19	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	17	ARTHROPODA	Crustacea	Cladocera					X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	15	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	9	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	5	ARTHROPODA	Crustacea	Copepoda					X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	2	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Caney Creek (upper)	OK410400-03-0020C	49809	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Probezzia	6					X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	62	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Optioservus	4							X	
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	3	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemerellidae	Eurylophella	1		X						
Woody	Cedar Creek	OK410300-03-0020M	48579	2/18/2011	W	1	MOLLUSCA	Gastropoda	Basommatophora	Planorbidae	Helisoma	6							X	
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulium	6	X							
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Ephydriidae	Hydrellia	6		X						
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3						X		
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Ischnura	9					X			
Woody	Cloudy Creek	OK410210-02-0300C	48577	2/18/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	35	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	13	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	13	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Paracloeodes	4							X	
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Enallagma	9					X			
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Progomphus	1					X			
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Nectopsyche	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48544	8/5/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Polycentropodidae	Cyrnellus	6	X							
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	38	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	31	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	18	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	5	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	2	ARTHROPODA	Insecta	Plecoptera	Taeniopterygidae	Strophopteryx	2							X	
Woody	Delaware Creek	OK410400-03-0240M	48585	2/23/2011	W	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	54	ARTHROPODA	Crustacea	Copepoda						X					
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	40	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	5	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	2	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7						X		
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Cymbiodyta	7						X		
Woody	Delaware Creek	OK410400-03-0240M	49440	1/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Culicidae	Culiseta			X						
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	61	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	30	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	3	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae			5						X	
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Limnephilus	4							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Goose Creek	OK410400-03-0490G	48584	2/23/2011	W	1	NEMATODA								X					
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	92	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	6	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2					X			
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Crustacea	Cladocera					X						
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Insecta	Collembola	Isotomidae	Isotomurus			X						
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acentrella	4		X						
Woody	Goose Creek	OK410400-03-0490G	49812	3/1/2012	W	1	NEMATODA										X			
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	36	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	24	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	10	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7					X			
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Crustacea	Copepoda						X					
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7					X			
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Atrichopogon	6		X			X			
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Island Bayou	OK410700-00-0040G	49814	3/1/2012	W	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8						X		
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	34	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	26	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	15	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Staphylinidae								X		
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4						X		
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Little West Blue Creek	OK410600-02-0100C	46397	6/10/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Ephemeridae	Ephemera	4		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	89	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Slavina	8		X						

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Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7				X				
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Crustacea	Copepoda					X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Mineral Bayou	OK410600-01-0300G	49443	1/24/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	86	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	20	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	5	ARTHROPODA	Crustacea	Copepoda					X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Enochrus	7		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	North Boggy Creek	OK410400-08-0010M	49810	2/23/2012	W	1	ARTHROPODA	Insecta	Diptera	Tipulidae	Limnophila	3					X			
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	80	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	2	ARTHROPODA	Crustacea	Cladocera					X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	2	ARTHROPODA	Insecta	Diptera	Empididae	Clinocera	6					X			
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Prosimulum	6	X							

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Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Odonata	Aeshnidae	Boyeria	3					X			
Woody	One Creek	OK410300-03-0060F	48580	2/18/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Hydroperla	2					X			
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	24	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	12	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	10	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X					X	
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	5	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Dero	10		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Bezzia	6		X			X			
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Fallceon	4		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Paracymus	7			X		X			
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Diptera	Tipulidae	Geranomyia	3							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	2	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4				X				
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Diptera	Psychodidae	Psychoda	10		X						
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Paracloeodes	4							X	
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9						X		
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydroptilidae	Hydroptila	4					X	X		
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4					X			
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	MOLLUSCA	Gastropoda	Basommatophora	Lymnaeidae	Fossaria	6							X	
Woody	Sand Creek	OK410700-00-0260G	46399	7/15/2010	S	1	MOLLUSCA	Gastropoda	Basommatophora	Physidae	Physella	8							X	
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	29	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	12	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	11	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	9	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	8	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	5	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Odonata	Gomphidae	Progomphus	1				X				
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	3	ARTHROPODA	Insecta	Odonata	Macromiinae	Macromia	3					X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7				X	X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Isonychiidae	Isonychia	7	X							
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	2	MOLLUSCA	Pelecypoda	Veneroida	Corbiculidae	Corbicula	5	X							
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Psychodidae	Pericoma	10		X						
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4					X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Odonata	Aeshnidae	Boyeria	3					X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Plecoptera	Perlidae	Acroneuria	1					X			
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Hydropsycheidae	Hydropsyche	4					X	X		
Woody	Sandy Creek	OK410600-02-0020G	46398	7/14/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Triaenodes	4							X	
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	15	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	12	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	7	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5							X	

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	5	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	3	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	2	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Odonata	Aeshnidae	Basiaeschna	3						X		
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	ARTHROPODA	Insecta	Trichoptera	Limnephilidae	Pycnopsyche	4							X	
Woody	Sandy Creek	OK410600-02-0020G	48586	2/23/2011	W	1	NEMERTEA	Enopla	Hoploneurteme	Tetrastemmatidae	Prostoma							X		
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	67	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	22	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	11	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	5	ARTHROPODA	Crustacea	Copepoda						X					
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlestida	1			X					
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	3	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Berosus	7					X	X		
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	2	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	2	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Oreodytes	7					X			
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Capniidae	Allocapnia	1							X	
Woody	Sandy Creek	OK410600-02-0020G	49441	1/23/2012	W	1	PLATYHELMINTHES	Turbellaria	Tricladida	Planariidae	Dugesia	4			X					
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	68	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	12	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	2	ARTHROPODA	Crustacea	Decapoda	Cambaridae	Cambarus	6		X						
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Agabus	7					X			
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae		5							X	
Woody	Sulphur Creek	OK410600-01-0030G	49806	2/22/2012	W	1	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	83	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	4	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	4	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Hydroperla	2						X		
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	3	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	2	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Crustacea	Isopoda	Asellidae	Lirceus	8		X						
Woody	Tenmile Creek	OK410300-03-0270C	49816	3/1/2012	W	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	95	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	6	ARTHROPODA	Crustacea	Isopoda	Asellidae	Asellus	8		X						
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	3	ANNELIDA	Oligochaeta	Haplotaxida	Tubificidae	Limnodrilus	10		X						
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ARTHROPODA	Crustacea	Amphipoda	Gammaridae	Gammarus	8		X						
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlidae	Perlesta	1			X					
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	2	ARTHROPODA	Insecta	Plecoptera	Perlodidae	Isoperla	2			X					
Woody	Whitegrass Creek	OK410400-01-0210G	49815	3/1/2012	W	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						
Woody	Blue River (086)	OKLRED-086	46368	8/4/2010	S	48	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X					X	
Woody	Blue River (086)	OKLRED-086	46368	8/4/2010	S	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X		X			

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Hydrophilidae	Cymbiodyta	7						X		
Woody	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Diptera	Empididae	Hemerodromia	6								
Woody	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Bois d' Arc Creek (009)	OKLRED-009	46402	7/21/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae		5								
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	34	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	21	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	14	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	12	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	5	ARTHROPODA	Insecta	Coleoptera	Dryopidae	Helichus	5								
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	5	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X					X	
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X			X			
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Staphylinidae										
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Culicidae	Anopheles		X							
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Tabanidae	Chrysops	6		X					X	
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X						
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Nigronia	4								
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9								
Woody	Caney Boggy Creek	OKLRED-005	46404	8/9/2010	S	1	ARTHROPODA	Insecta	Odonata	Gomphidae	Progomphus	1								
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	39	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	8	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Baetis	4		X						
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	7	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X					X	
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	6	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X		X			
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	6	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenonema	4			X					
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	4	MOLLUSCA	Pelecypoda	Venerida	Corbiculidae	Corbicula	5	X							
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Cyphon	8								
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	3	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	2	ARTHROPODA	Insecta	Hemiptera	Corixidae	Trichocorixa	8								
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Heterelmis	4		X			X			
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Hemiptera	Veliidae	Rhagovelia	8					X			
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Megaloptera	Corydalidae	Corydalus	4								
Woody	Clear Boggy Creek	OKLRED-094	47241	8/9/2010	S	1	ARTHROPODA	Insecta	Trichoptera	Leptoceridae	Oecetis	4								
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	24	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	12	ARTHROPODA	Insecta	Diptera	Simuliidae	Simulium	6	X							
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	9	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	6	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Dytiscidae	Hydroporus	7								
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Dubiraphia	4		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	2	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ANNELIDA	Oligochaeta	Haplotaxida	Naididae	Nais	8		X						
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X					
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X			X			
Woody	Clear Boggy Creek (053)	OKLRED-053	47132	5/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X	X		
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	28	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	20	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	13	ARTHROPODA	Insecta	Ephemeroptera	Tricorythidae	Tricorythodes	4		X			X			
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	7	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Orthocladiinae	6		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	5	ARTHROPODA	Insecta	Coleoptera	Elmidae	Heterelmis	4		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	4	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	3	ARTHROPODA	Insecta	Coleoptera	Elmidae	Stenelmis	4			X					
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Labiobaetis	4		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Hydropsyche	4	X							
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Macronychus	4			X					
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Coleoptera	Elmidae	Microcylloepus	4		X						
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Ceratopogonidae	Atrichopogon	6		X			X			
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Diptera	Chironomidae	Pseudochironomini	6		X			X			
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X			X			
Woody	Clear Boggy Creek (075)	OKLRED-075	46442	8/11/2010	S	1	ARTHROPODA	Insecta	Odonata	Coenagrionidae	Argia	9					X			
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	33	ARTHROPODA	Insecta	Ephemeroptera	Caenidae	Caenis	7		X						

Sample Type	Site Name	WBID	SAMPLEID	Date	Winter or Summer	Number	Phylum	Class	Order	Family	Genus	HBI_score	filtering_collector	gathering_collector	omnivore	parasite	predator	piercer	scraper	shredder
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	13	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanytarsini	6		X					X	
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	6	ARTHROPODA	Insecta	Diptera	Chironomidae	Chironomini	8		X						
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	4	ARTHROPODA	Insecta	Coleoptera	Scirtidae	Scirtes	8								
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	4	ARTHROPODA	Insecta	Diptera	Chironomidae	Tanypodinae	6		X						
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	3	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Procloeon	4		X	X					
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	2	ARTHROPODA	Insecta	Ephemeroptera	Heptageniidae	Stenacron	4			X					
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	2	ARTHROPODA	Insecta	Odonata	Aeshnidae	Nasiaeschna	3								
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	2	ARTHROPODA	Insecta	Trichoptera	Hydropsychidae	Cheumatopsyche	4	X							
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	1	ARTHROPODA	Crustacea	Amphipoda	Talitridae	Hyalella	8		X						
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	1	ARTHROPODA	Insecta	Ephemeroptera	Baetidae	Acerpenna	4			X					
Woody	Turkey Creek (037)	OKLRED-037	46400	7/19/2010	S	1	ARTHROPODA	Insecta	Lepidoptera	Pyralidae		5								

APPENDIX D DESIGNATED USE SUPPORT

D.1 Designated use support assessment

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Beech Creek	OK410210060320_00	Aesthetic	Fully Supporting		
Beech Creek	OK410210060320_00	Ag	Fully Supporting		
Beech Creek	OK410210060320_00	CWAC	Not Supporting	pH	155
Beech Creek	OK410210060320_00	PBCR	Insufficient Information		
Big Cedar Creek	OK410310020100_00	Aesthetic	Fully Supporting		
Big Cedar Creek	OK410310020100_00	Ag	Fully Supporting		
Big Cedar Creek	OK410310020100_00	PBCR	Insufficient Information		
Big Cedar Creek	OK410310020100_00	WWAC	Not Supporting	pH	155
Big Eagle Creek	OK410210060160_00	Aesthetic	Fully Supporting		
Big Eagle Creek	OK410210060160_00	Ag	Fully Supporting		
Big Eagle Creek	OK410210060160_00	CWAC	Not Supporting	DO	4 46 59 87 92 108 111 133 136 140
Big Eagle Creek	OK410210060160_00	CWAC	Not Supporting	pH	155
Big Eagle Creek	OK410210060160_00	PBCR	Insufficient Information		
Billy Creek	OK410310020070_00	Aesthetic	Insufficient Information		
Billy Creek	OK410310020070_00	Ag	Fully Supporting		
Billy Creek	OK410310020070_00	PBCR	Insufficient Information		
Billy Creek	OK410310020070_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Billy Creek	OK410310020070_00	WWAC	Not Supporting	pH	155
Bird Creek	OK410300010100_00	Aesthetic	Fully Supporting		

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Bird Creek	OK410300010100_00	Ag	Fully Supporting		
Bird Creek	OK410300010100_00	PBCR	Insufficient Information		
Bird Creek	OK410300010100_00	PPWS	Insufficient Information		
Bird Creek	OK410300010100_00	WWAC	Insufficient Information		
Bokchito Creek	OK410600010090_00	Aesthetic	Fully Supporting		
Bokchito Creek	OK410600010090_00	Ag	Fully Supporting		
Bokchito Creek	OK410600010090_00	PBCR	Insufficient Information		
Bokchito Creek	OK410600010090_00	WWAC	Insufficient Information		
Buffalo Creek	OK410210060020_00	Aesthetic	Fully Supporting		
Buffalo Creek	OK410210060020_00	Ag	Fully Supporting		
Buffalo Creek	OK410210060020_00	CWAC	Not Supporting	pH	155
Buffalo Creek	OK410210060020_00	PBCR	Insufficient Information		
Caddo Creek	OK410600010140_00	Aesthetic	Fully Supporting		
Caddo Creek	OK410600010140_00	Ag	Fully Supporting		
Caddo Creek	OK410600010140_00	PBCR	Insufficient Information		
Caddo Creek	OK410600010140_00	WWAC	Not Supporting	DO	46 85 87 92 108 111 133 136 140
Caney Boggy Creek	OK410400060120_00	Aesthetic	Fully Supporting		
Caney Boggy Creek	OK410400060120_00	Ag	Fully Supporting		
Caney Boggy Creek	OK410400060120_00	PBCR	Insufficient Information		

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Caney Boggy Creek	OK410400060120_00	WWAC	Not Supporting	DO	46 87 92 100 108 111 133 136 140
Caney Creek	OK410400020200_00	Aesthetic	Fully Supporting		
Caney Creek	OK410400020200_00	Ag	Fully Supporting		
Caney Creek	OK410400020200_00	PBCR	Insufficient Information		
Caney Creek	OK410400020200_00	WWAC	Not Supporting	DO	46 87 92 108 133 136 140
Caney Creek	OK410400020200_00	WWAC	Not Supporting	pH	8 92 140
Caney Creek	OK410400030020_00	Aesthetic	Insufficient Information		
Caney Creek	OK410400030020_00	Ag	Fully Supporting		
Caney Creek	OK410400030020_00	SBCR	Insufficient Information		
Caney Creek	OK410400030020_00	WWAC	Fully Supporting		
Cloudy Creek	OK410210020300_00	Aesthetic	Fully Supporting		
Cloudy Creek	OK410210020300_00	Ag	Fully Supporting		
Cloudy Creek	OK410210020300_00	CWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Cloudy Creek	OK410210020300_00	CWAC	Not Supporting	pH	140
Cloudy Creek	OK410210020300_00	PBCR	Insufficient Information		
Cow Creek	OK410210060350_00	Aesthetic	Fully Supporting		
Cow Creek	OK410210060350_00	Ag	Fully Supporting		
Cow Creek	OK410210060350_00	CWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Cow Creek	OK410210060350_00	CWAC	Not Supporting	pH	155
Cow Creek	OK410210060350_00	PBCR	Insufficient Information		
Cypress Creek	OK410210010070_00	Aesthetic	Insufficient Information		
Cypress Creek	OK410210010070_00	Ag	Fully Supporting		
Cypress Creek	OK410210010070_00	CWAC	Not Supporting	DO	46 87 92 108 111 133 136 140

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Cypress Creek	OK410210010070_00	CWAC	Not Supporting	pH	155
Cypress Creek	OK410210010070_00	PBCR	Insufficient Information		
Delaware Creek	OK410400030240_00	Aesthetic	Insufficient Information		
Delaware Creek	OK410400030240_00	Ag	Fully Supporting		
Delaware Creek	OK410400030240_00	PBCR	Insufficient Information		
Delaware Creek	OK410400030240_00	WWAC	Fully Supporting		
Glover River	OK410210080010_00	Aesthetic	Fully Supporting		
Glover River	OK410210080010_00	Ag	Fully Supporting		
Glover River	OK410210080010_00	CWAC	Not Supporting	Lead	49 56 140
Glover River	OK410210080010_00	CWAC	Not Supporting	Turbidity	108 119 140
Glover River	OK410210080010_00	Fish Con	Fully Supporting		
Glover River	OK410210080010_00	PBCR	Fully Supporting		
Glover River	OK410210080010_00	PPWS	Fully Supporting		
Glover River, East Fork	OK410210090010_00	Aesthetic	Fully Supporting		
Glover River, East Fork	OK410210090010_00	Ag	Fully Supporting		
Glover River, East Fork	OK410210090010_00	CWAC	Not Supporting	DO	46 59 87 92 108 111 133 136 140
Glover River, East Fork	OK410210090010_00	CWAC	Not Supporting	pH	8 59 92 102 140
Glover River, East Fork	OK410210090010_00	Fish Con	Fully Supporting		
Glover River, East Fork	OK410210090010_00	HQW	Fully Supporting		
Glover River, East Fork	OK410210090010_00	PBCR	Insufficient Information		
Glover River, East Fork	OK410210090010_00	PPWS	Fully Supporting		
Goose Creek	OK410400030490_00	Aesthetic	Fully Supporting		
Goose Creek	OK410400030490_00	Ag	Fully Supporting		

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Goose Creek	OK410400030490_00	PBCR	Insufficient Information		
Goose Creek	OK410400030490_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Horse Creek	OK410400010040_00	Aesthetic	Insufficient Information		
Horse Creek	OK410400010040_00	Ag	Fully Supporting		
Horse Creek	OK410400010040_00	PBCR	Insufficient Information		
Horse Creek	OK410400010040_00	WWAC	Not Supporting	DO	46 59 85 87 92 108 111 133 136 140
Island Bayou	OK410700000040_00	Aesthetic	Insufficient Information		
Island Bayou	OK410700000040_00	Ag	Not Supporting	TDS	49 102 140
Island Bayou	OK410700000040_00	EWS	Fully Supporting		
Island Bayou	OK410700000040_00	SBCR	Insufficient Information		
Island Bayou	OK410700000040_00	WWAC	Insufficient Information		
Leader Creek	OK410400030370_00	Aesthetic	Insufficient Information		
Leader Creek	OK410400030370_00	Ag	Fully Supporting		
Leader Creek	OK410400030370_00	PBCR	Insufficient Information		
Leader Creek	OK410400030370_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Lick Creek	OK410400010130_00	Aesthetic	Fully Supporting		
Lick Creek	OK410400010130_00	Ag	Fully Supporting		
Lick Creek	OK410400010130_00	PBCR	Insufficient Information		
Lick Creek	OK410400010130_00	WWAC	Not Supporting	DO	46 87 92 108 133 136 140
Lick Creek	OK410400010130_00	WWAC	Not Supporting	pH	8 92 102 140
Little River, Black Fork	OK410210030020_00	Aesthetic	Insufficient Information		
Little River, Black Fork	OK410210030020_00	Ag	Fully Supporting		
Little River, Black Fork	OK410210030020_00	CWAC	Not Supporting	pH	155

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Little River, Black Fork	OK410210030020_00	CWAC	Not Supporting	pH	155
Little River, Black Fork	OK410210030020_00	PBCR	Insufficient Information		
Little West Blue Creek	OK410600020100_00	Aesthetic	Fully Supporting		
Little West Blue Creek	OK410600020100_00	Ag	Fully Supporting		
Little West Blue Creek	OK410600020100_00	PBCR	Insufficient Information		
Little West Blue Creek	OK410600020100_00	WWAC	Fully Supporting		
Lukfata Creek	OK410210070010_00	Aesthetic	Fully Supporting		
Lukfata Creek	OK410210070010_00	Ag	Fully Supporting		
Lukfata Creek	OK410210070010_00	CWAC	Not Supporting	DO	4 46 87 92 100 108 111 133 136 140
Lukfata Creek	OK410210070010_00	PBCR	Insufficient Information		
McGee Creek	OK410400070010_00	Aesthetic	Insufficient Information		
McGee Creek	OK410400070010_00	Ag	Fully Supporting		
McGee Creek	OK410400070010_00	PBCR	Insufficient Information		
McGee Creek	OK410400070010_00	WWAC	Not Supporting	pH	8 59 85 92 102 140
Mineral Bayou	OK410600010300_00	Aesthetic	Fully Supporting		
Mineral Bayou	OK410600010300_00	Ag	Fully Supporting		
Mineral Bayou	OK410600010300_00	EWS	Fully Supporting		
Mineral Bayou	OK410600010300_00	PBCR	Insufficient Information		
Mineral Bayou	OK410600010300_00	WWAC	Not Supporting	Turbidity	46 49 87 102 108 140
Norwood Creek	OK410100010050_00	Aesthetic	Fully Supporting		
Norwood Creek	OK410100010050_00	Ag	Fully Supporting		
Norwood Creek	OK410100010050_00	PBCR	Insufficient Information		
Norwood Creek	OK410100010050_00	WWAC	Not Supporting	DO	4 46 59 87 92 108 111 133 136 140

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Norwood Creek	OK410100010050_00	WWAC	Not Supporting	pH	8 92 97 102 140
One Creek	OK410300030060_00	Aesthetic	Insufficient Information		
One Creek	OK410300030060_00	Ag	Fully Supporting		
One Creek	OK410300030060_00	PBCR	Insufficient Information		
One Creek	OK410300030060_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Rock Creek	OK410200030010_00	Aesthetic	Insufficient Information		
Rock Creek	OK410200030010_00	Ag	Fully Supporting		
Rock Creek	OK410200030010_00	CWAC	Not Supporting	DO	46 87 92 100 108 111 133 136 140
Rock Creek	OK410200030010_00	CWAC	Not Supporting	pH	155
Rock Creek	OK410200030010_00	PBCR	Insufficient Information		
Rock Creek	OK410300020190_00	Aesthetic	Insufficient Information		
Rock Creek	OK410300020190_00	Ag	Fully Supporting		
Rock Creek	OK410300020190_00	CWAC	Not Supporting	DO	33 87 92 108 111 133 136 140
Rock Creek	OK410300020190_00	CWAC	Not Supporting	pH	8 92 102 140
Rock Creek	OK410300020190_00	PBCR	Insufficient Information		
Sand Creek	OK410700000260_00	Aesthetic	Fully Supporting		
Sand Creek	OK410700000260_00	Ag	Fully Supporting		
Sand Creek	OK410700000260_00	PBCR	Insufficient Information		
Sand Creek	OK410700000260_00	WWAC	Fully Supporting		
Sandy Creek	OK410600020020_00	Aesthetic	Insufficient Information		
Sandy Creek	OK410600020020_00	Ag	Fully Supporting		
Sandy Creek	OK410600020020_00	PBCR	Insufficient Information		
Sandy Creek	OK410600020020_00	WWAC	Fully Supporting		

Site Name	WBID	Use	Attainment	Impairment	Potential Sources
Sulphur Creek	OK410600010030_00	Aesthetic	Fully Supporting		
Sulphur Creek	OK410600010030_00	Ag	Fully Supporting		
Sulphur Creek	OK410600010030_00	PBCR	Insufficient Information		
Sulphur Creek	OK410600010030_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140
Tenmile Creek	OK410300030270_00	Aesthetic	Insufficient Information		
Tenmile Creek	OK410300030270_00	Ag	Fully Supporting		
Tenmile Creek	OK410300030270_00	PBCR	Not Supporting		
Tenmile Creek	OK410300030270_00	PPWS	Insufficient Information		
Tenmile Creek	OK410300030270_00	WWAC	Not Supporting	DO	92 156 140
Tenmile Creek	OK410300030270_00	WWAC	Not Supporting	pH	155
Terrapin Creek	OK410210020150_00	Aesthetic	Fully Supporting		
Terrapin Creek	OK410210020150_00	Ag	Fully Supporting		
Terrapin Creek	OK410210020150_00	CWAC	Not Supporting	pH	155
Terrapin Creek	OK410210020150_00	PBCR	Insufficient Information		
Waterhole Creek	OK410100010340_00	Aesthetic	Fully Supporting		
Waterhole Creek	OK410100010340_00	Ag	Fully Supporting		
Waterhole Creek	OK410100010340_00	PBCR	Insufficient Information		
Waterhole Creek	OK410100010340_00	WWAC	Not Supporting	DO	4 46 59 87 92 100 108 111 133 136 140
Whitegrass Creek	OK410400010210_00	Aesthetic	Fully Supporting		
Whitegrass Creek	OK410400010210_00	Ag	Fully Supporting		
Whitegrass Creek	OK410400010210_00	PBCR	Insufficient Information		
Whitegrass Creek	OK410400010210_00	WWAC	Not Supporting	DO	46 87 92 108 111 133 136 140

D.2 Key for cause and source codes

Legend of Potential Sources	
Source ID	Source Description
2	Acid Mine Drainage
4	Animal Feeding Operations (NPS)
8	Atmospheric Depositon - 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