ADEM Fish Tissue Monitoring Program 2013 Annual Report

Tennessee River Basin

June 11, 2014

Alabama Department of Environmental Management

Field Operations Division

Environmental Indicators Section

Aquatic Assessment Unit

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INTRODUCTION

The Alabama Department of Environmental Management (ADEM) and its predecessor, the Alabama Water Improvement Commission (AWIC), have collected fish for analysis of contaminant levels since 1970. For the 20 years that followed, fish collections focused on areas of known or suspected contamination. In 1991, the ADEM expanded its Fish Tissue Monitoring Program (FTMP) to provide statewide screening of bioaccumulative contaminants in fish tissue, and to provide the Alabama Department of Public Health (ADPH) with data needed for determination of potential risk to those who consume fish from Alabama waters and to issue/modify fish consumption advisories within the state. The expanded program historically exists as a cooperative effort between the ADEM, the ADPH, the Alabama Department of Conservation and Natural Resources (ADCNR) and the Tennessee Valley Authority (TVA).

Following expansion of the program to statewide screening, fish from all of Alabama's major reservoirs, rivers, streams and state-managed public fishing lakes were collected over a five-year period. Data from these locations were provided to the ADPH for issuance, modification or removal of fish consumption advisories to the public. The results of the program over the five-year period indicated that the majority of Alabama waterbodies supported healthy fish populations, with low to undetectable contaminant levels where any contaminants existed. However, the ADPH determined that fish from certain waterbodies were found to contain contaminant levels in excess of Environmental Protection Agency (EPA) and Food and Drug Administration (FDA) guidance levels.

In 1997, the FTMP was incorporated into the ADEM Watershed Management Approach. Pursuant to this approach, water quality of each major drainage basin in the state is assessed by

ADEM on a five-year rotating basis. The initial rotation was completed in 2001 with the five major basins and years sampled as follows:

a) Black Warrior and Cahaba Rivers (1997)
b) Tennessee River (1998)
c) Chattahoochee and Conecuh Rivers (1999)
d) Coosa, Tallapoosa and Alabama Rivers (2000)
e) Escatawpa, Mobile and Tombigbee Rivers (2001)

In addition to the basin locations sampled each year, the ADEM continued to sample areas of concern outside the focus basin as needed or requested by cooperating agencies and as resources allowed. To date, samples comprised of several thousand fish have been collected from 363 sites for the FTMP.

Because of the variability in contaminant concentrations observed in fish collected from locations over several years, and the need for additional monitoring at a number of locations, the approach to annual monitoring was refined in 2002. Annual fish tissue monitoring by ADEM became multi-faceted and directed toward accomplishing three goals:

a) Sampling locations throughout the focus basin;
b) Repetitive sampling of sites where the ADPH has determined that EPA/FDA limits have been exceeded; and,
c) Sampling remaining areas in Alabama where fish have not been collected for the FTMP.

Repetitive sampling of sites where EPA/FDA action levels have been exceeded proceeds as follows:

a) Sites that exceeded EPA/FDA limits for the first time the previous year will be sampled for a minimum of two concurrent years to provide verification of contaminant concentrations as requested by the ADPH;
b) Sites where ADPH consumption advisories currently exist will be sampled at a minimum of every three years to provide data for analysis of trends in contaminant concentrations.

The extent to which the above goals are accomplished each year is dependent upon available resources. The ADEM also continues to monitor dioxin concentrations below paper mills and sample other areas of concern as they arise and as resources allow.

In June 2006 the ADPH adopted the EPA guidance level of 0.3 ug/g mercury in fish for issuance of public consumption advisories, replacing the FDA guidance level of 1.0 ug/g previously used.

METHODS

Fish sampling and tissue preparation procedures of the FTMP are as described in the ADEM documents: *Fish Tissue Monitoring Program Sample Collection Procedures (SOP #2300*) and *Fish Tissue Monitoring Sample Processing and Data Reporting Procedures (SOP# 2301).*

Sampling is typically conducted in the fall of the year, generally October-December for the FTMP. These months are preferred in fish tissue monitoring programs because:

a) Organic pollutants, primarily stored in fatty (lipid) tissue, would be at the greatest concentration as fat content of fish is highest at this time of year;

b) Target species are more easily collected while water levels are low and as water temperatures cool;

c) Fall collections do not interfere with spawning seasons of target species.

Collection methods may include electrofishing and/or gillnets as needed. Typically six individuals of the same species are collected at each location from each of two primary feeding groups, predators and bottom-feeders. At stations where FDA and/or EPA guidance levels have been exceeded, multiple commercial and/or sport fish species may be collected if available and as resources allow. Collected fish are within a size range identified in the SOP, with the additional requirement that catfish weigh a minimum of one pound as requested by the ADPH.

After collection, fish are weighed and measured with any abnormalities noted. The skin of each fish is removed and discarded, followed by the removal of left and right side fillets that are packaged separately for laboratory analysis (Table 1) and storage as needed. Otoliths and or spines are removed from the carcass and preserved for age determinations.

Following completion of analyses, all data are compiled and distributed to cooperating agencies and a press release is issued to provide analytical results to the public.

Table 1. Analytical parameters for the ADEM Fish Tissue Monitoring Program.

Parameter	Method	RL	MDL	FDA Guidance Level	EPA Guidance Level
Arsenic, Total	EPA200.9		0.179 ug/g		
Cadmium	EPA200.9		0.005 ug/g		
Mercury, Total	EPA245.6	0.01 ug/g		1.0 ug/g	0.33 ug/g
Selenium, Total	EPA200.9		0.25 ug/g		
Chlordane, Total	SW8081A	0.01 ug/g		0.3 ug/g	
4,4-DDD	SW8081A	0.01 ug/g			
4,4-DDE	SW8081A	0.01 ug/g			
4,4-DDT	SW8081A	0.01 ug/g		Total DDT 5.0 ug/g	
2,4-DDD	SW8081A	0.01 ug/g			
2,4-DDE	SW8081A	0.01 ug/g			
2,4-DDT	SW8081A	0.01 ug/g			
Chlorpyrifos	SW8081A	0.01 ug/g			
Dieldrin	SW8081A	0.01 ug/g		0.3 ug/g	
Endosulfan I	SW8081A	0.01 ug/g			
Endosulfan II	SW8081A	0.01 ug/g			
Endrin	SW8081A	0.01 ug/g			
gamma-BHC (Lindane)	SW8081A	0.01 ug/g			
Heptachlor	SW8081A	0.01 ug/g		0.3 ug/g	
Heptachlor Epoxide	SW8081A	0.01 ug/g		0.3 ug/g	
Hexachlorobenzene	SW8081A	0.05 ug/g			
Mirex	SW8081A	0.01 ug/g		0.1 ug/g	
Arochlor 1016	SW8082	0.05 ug/g			
Arochlor 1221	SW8082	0.05 ug/g			
Arochlor 1232	SW8082	0.05 ug/g			
Arochlor 1242	SW8082	0.05 ug/g			
Arochlor 1248	SW8082	0.05 ug/g			
Arochlor 1254	SW8082	0.05 ug/g			
Arochlor 1260	SW8082	0.05 ug/g			
Total PCBs	SW8082	0.05 ug/g		2.0 ug/g	
Toxaphene	SW8081A	0.05 ug/g		5.0 ug/g	
2, 3, 7, 8 TCDD Dioxin	EPA 1613 / 8290	1.0 ppt		7.0 ppt	
Percent lipids	SW3640A	0.10%			

RESULTS

From September through December 2013, 569 fish (8 different species) from 51 locations (Figure 1 and Table 2) were collected for the FTMP. Forty-one different waterbodies were sampled. Eighteen locations with current ADPH consumption advisories for mercury were sampled and two locations downstream of paper mills were sampled for dioxin analysis. Analytical results for the 2013 FTMP are presented in Table 3.

ADEM's monitoring program also includes an evaluation of the physical condition of important sport and/or commercial fish species. Results of the evaluation indicate the majority of the fish evaluated were in good to excellent condition. Fish were also checked for external anomalies, such as lesions, tumors, parasites and deformities. Some 90 percent of the fish observed had no anomalies, a value similar to those of previous years. The most commonly observed anomalies were lesions on the body surface. The occurrence of lesions on fish during spring and fall may be the result of bacterial infections associated with changing water temperatures, spawning stress or a combination of natural occurrences. These infections are not dangerous to the consumer and the fish are edible if properly prepared.

The focus basins for the 2014 sample season are the Perdido-Escambia, Choctawhatchee and Chattahoochee River basins. Sample location selection is ongoing and sampling will begin in September/October 2014.

The ADPH provides information on current fish consumption advisories in Alabama as well as nutritional information and safe practices for selecting and preparing fish at http://www.adph.org/tox/index.asp?id=1360.

For more information regarding ADEM's Fish Tissue Monitoring Program please contact Michael Len at 334-260-2787.

Figure 1. CY 2013 FTMP sample locations.

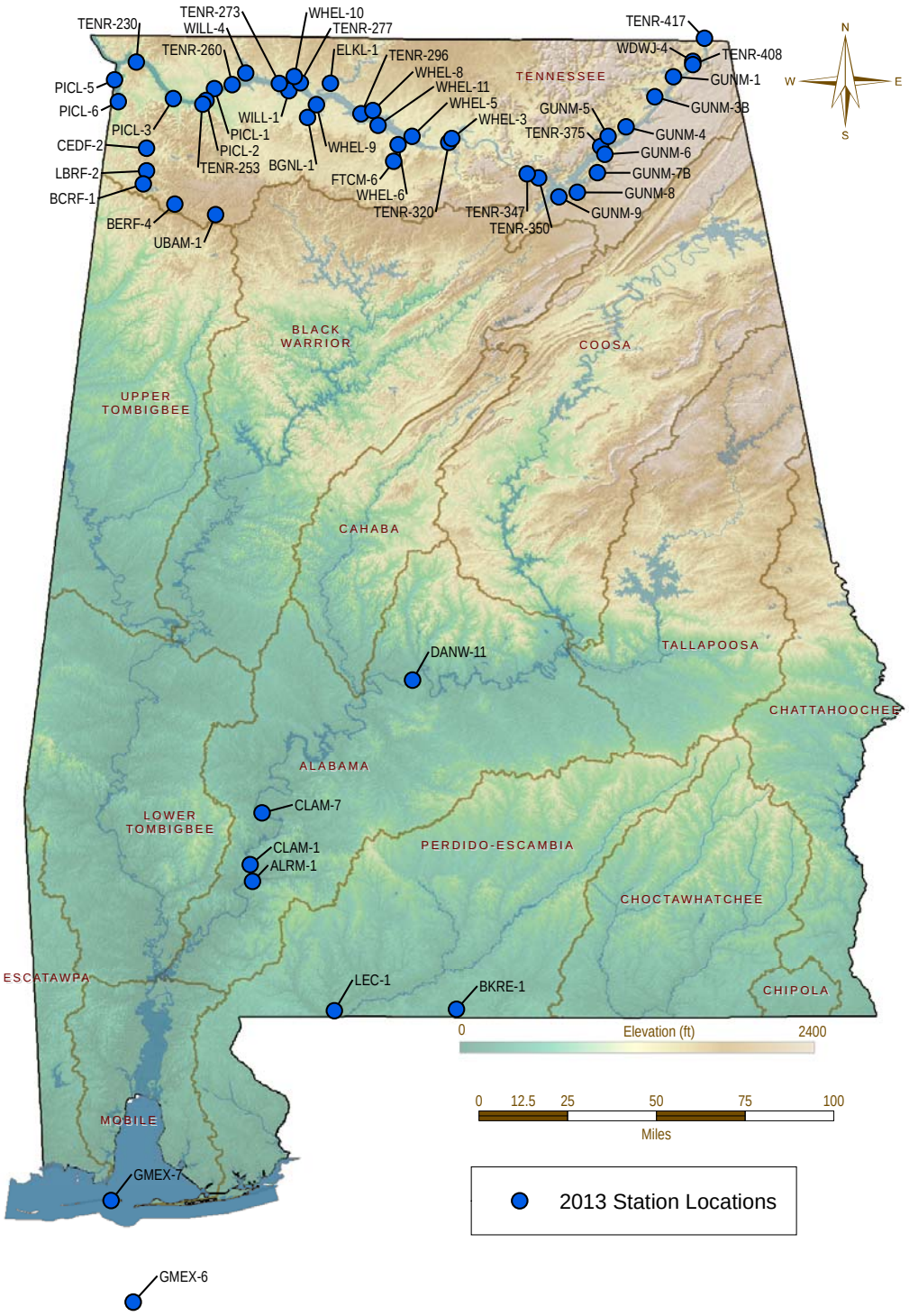

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
	Gulf Of Mexico	GMEX-6	Mobile	Red Snapper	Gulf of Mexico.
	Gulf Of Mexico	GMEX-7	Mobile	Spanish mackerel	Gulf of Mexico
Alabama R	Alabama R	ALRM-1	Monroe	Channel catfish Largemouth bass	Approximately 2.0 miles downstream of AL Hwy 12/US Hwy 84. River miles 65-66.
Alabama R	Claiborne Res	CLAM-1	Monroe	Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay.
Alabama R	Claiborne Res	CLAM-7	Clarke	Largemouth bass	Claiborne Reservoir in vicinity of Lower Peachtree access area approximately river mile 96. Vicinity of the intersection of Clarke, Monroe and Wilcox Counties.
Alabama R	Dannelly Res	DANW-11	Dallas	Channel catfish Spotted bass	Approximately 7.5 miles upstream of AL Hwy 41. Alabama River miles 214.9-216.9. Lat/Lon calculated at river mile 214.9.
Perdido-Escambia R	Blackwater R	BKRE-1	Escambia	Spotted bass Largemouth bass	Deepest point, main river channel, approximately 0.5 miles upstream of Co. Rd. 4.
Perdido-Escambia R	Little Escambia Ck	LEC-1	Escambia	Largemouth bass Spotted bass	Little Escambia Creek, Escambia Co at US Hwy 31/29 bridge.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Bakers Ck	WHEL-11	Morgan	Channel catfish Largemouth bass	Bakers Creek upstream of Bakers Creek/Tennessee River confluence.
Tennessee R	Bear Ck	BERF-4	Franklin	Channel catfish Spotted bass	Bear Creek at Franklin Co Rd. 53, river mile 95.7.
Tennessee R	Bear Ck	PICL-5	Colbert	Channel catfish Largemouth bass	Main creek channel at Bear Creek embayment. Pickwick Reservoir, Bear Creek embayment, at Bear Creek mile 8.0 approximately 5 miles downstream of Buzzard Roost/Bear Creek confluence.
Tennessee R	Bear Ck	PICL-6	Colbert	Channel catfish Largemouth bass	Bear Creek at Allsboro Rd.
Tennessee R	Bear Ck Res	BCRF-1	Franklin	Channel catfish Largemouth bass	Dam forebay area of Bear Creek Reservoir. Bear Creek mile 75.
Tennessee R	Big Nance Ck	BGNL-1	Lawrence	Creek chubsucker Spotted sucker Largemouth bass	Big Nance Creek in the vicinity of Lawrence Co. Rd. 25.
Tennessee R	Big Nance Ck	WILL-1	Lawrence	Channel catfish Largemouth bass	Deepest point, main creek channel, Big Nance Creek embayment, immediately upstream of AL Hwy 101 bridge.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Cane Ck	PICL-3	Colbert	Channel catfish Largemouth bass	Cane Creek embayment approximately 1 mile upstream of confluence with Tennessee River.
Tennessee R	Cedar Ck Res	CEDF-2	Franklin	Channel catfish Largemouth bass	Dam forebay to 1.0 mile upstream of the dam.
Tennessee R	Crow Ck	GUNM-1	Jackson	Channel catfish Largemouth bass	Deepest point, main creek channel, Crow Creek embayment, approximately 0.5 mile downstream of US Hwy 72 bridge.
Tennessee R	Cypress Ck	PICL-1	Lauderdale	Channel catfish Largemouth bass	Deepest point, main creek channel, Cypress Creek embayment, approximately 0.5 mile upstream of AL Hwy 20.
Tennessee R	Dry Ck	GUNM-4	Jackson	Channel catfish Largemouth bass	Deepest point, main creek channel, Roseberry/Dry Creek embayment, approximately 0.5 mile downstream of Jackson County Park.
Tennessee R	Elk R	ELKL-1	Lauderdale	Channel catfish Largemouth bass	Elk River embayment approximately river mile 6 (NE 1/4, Sec 12).
Tennessee R	Flint Ck	FTCM-6	Morgan	Channel catfish Largemouth bass	Flint Creek downstream of Flint Creek/West Flint Creek confluence. Vicinity of US Hwy 31.
Tennessee R	Flint Ck	WHEL-6	Morgan	Channel catfish Largemouth bass	Deepest point, main creek channel, Flint Creek embayment, 1 mile downstream of Co Rd 67 bridge at public access area.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Guntersville Res	TENR-350	Marshall	Channel catfish Largemouth bass	Dam forebay area. Tennessee River mile 350, downstream of Honeycomb Creek.
Tennessee R	Guntersville Res	TENR-375	Jackson	Channel catfish Largemouth bass	Guntersville Reservoir, TRM-375 between the confluences of South Sauty Creek and the Tennessee River and North Sauty Creek and the Tennessee River.
Tennessee R	Guntersville Res	TENR-408	Jackson	Channel catfish Largemouth bass	Guntersville Reservoir, vicinity of Tennessee River mile 408. Just downstream of Widows Creek.
Tennessee R	Indian Ck	WHEL-3	Madison	Channel catfish Largemouth bass	Deepest point, main creek channel, Indian Creek embayment, 1 mile upstream of lake confluence.
Tennessee R	Limestone Ck	WHEL-5	Limestone	Channel catfish Largemouth bass	Limestone Creek embayment beginning approximately 1 mile upstream of confluence with Tennessee River.
Tennessee R	Little Bear Ck Res	LBRF-2	Franklin	Channel catfish Largemouth bass	Dam forebay area, Little Bear Creek mile 12.5.
Tennessee R	Mud Ck	GUNM-3B	Jackson	Channel catfish Largemouth bass	Mud Creek embayment upstream of Jackson Co Rd 213.
Tennessee R	N Sauty Ck	GUNM-5	Jackson	Channel catfish Largemouth bass	Deepest point, main creek channel, North Sauty Creek embayment, immediately upstream of AL Hwy 79 bridge.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Pickwick Res	TENR-230	Colbert	Channel catfish Largemouth bass	Vicinity of Tennesse River mile 230, 2.5 miles upstream of Tennessee River/Second Creek confluence.
Tennessee R	Pickwick Res	TENR-253	Lauderdale	Channel catfish Largemouth bass	Pickwick Reservoir between Tennessee River miles 251.0-255.0, near Sheffield, AL.
Tennessee R	Round Island Ck	WHEL-8	Limestone	Channel catfish Largemouth bass	Deepest point, main creek channel, Round Island Creek embayment, approximately 1.5 miles upstream of lake confluence.
Tennessee R	S Sauty Ck	GUNM-6	Jackson	Channel catfish Largemouth bass	Deepest point, main creek channel, South Sauty Creek embayment, immediately upstream of Co Rd 67 bridge.
Tennessee R	Second Ck	WHEL-10	Lauderdale	Channel catfish Largemouth bass	Deepest point, main creek channel, Second Creek embayment, approximately 0.5 mile downstream of Hwy 72 bridge.
Tennessee R	Shoal Ck	WILL-4	Lauderdale	Channel catfish Largemouth bass	Deepest point, main creek channel, Shoal Creek embayment, immediately upstream of US Hwy 72 bridge.
Tennessee R	Short Ck	GUNM-8	Marshall	Channel catfish Largemouth bass	Deepest point, main creek channel, Short Creek embayment, immediately upstream of AL Hwy 227 bridge.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Spring Ck	GUNM-9	Marshall	Spotted bass Channel catfish Largemouth bass	Deepest point, main creek channel, Spring Creek embayment, immediately upstream of AL Hwy 227 bridge.
Tennessee R	Spring Ck	PICL-2	Colbert	Channel catfish Largemouth bass	Spring Creek embayment approximately 1 mile upstream of Pickwick Reservoir confluence.
Tennessee R	Spring Ck	WHEL-9	Lawrence	Channel catfish Largemouth bass	Deepest point, main creek channel, Spring Creek embayment, approximately 0.5 mile upstream of Co Rd 400 bridge.
Tennessee R	Tennessee R	TENR-417	Jackson	Channel catfish Largemouth bass	At AL/TN stateline just upstream of Long Island at RM 417.
Tennessee R	Town Ck	GUNM-7B	Marshall	Channel catfish Largemouth bass	Town Creek embayment approximately 4 miles upstream of AL Hwy 227.
Tennessee R	U Bear Ck Res	UBAM-1	Marion	Channel catfish Largemouth bass	Upper Bear Creek Reservoir dam forebay area. Upper Bear Creek mile 115.
Tennessee R	Wheeler Res	TENR-277	Lauderdale	Channel catfish Largemouth bass	Upstream of the dam at Tennessee River mile 277.0, near the confluence of First Creek with the main channel.

Table 2. CY 2013 FTMP sample location information; basin, locale, station ID, species collected and location description.

Basin	Locale	Station ID	County	Species Collected	Location Description
Tennessee R	Wheeler Res	TENR-296	Limestone	Channel catfish Largemouth bass	Mid station, main river channel, Tennessee River mile 296.
Tennessee R	Wheeler Res	TENR-320	Madison	Channel catfish Largemouth bass	Vicinity of Tennessee River mile 320. 0.9 miles upstream of Cotaco Creek and 1.0 mile downstream of Indian Creek.
Tennessee R	Wheeler Res	TENR-347	Marshall	Channel catfish Largemouth bass	Wheeler Reservoir, Tennessee River mile 347, 2.0 miles downstream of Guntersville dam.
Tennessee R	Widows Ck	WDWJ-4	Jackson	Yellow bullhead Largemouth bass	Stretch of Widows Creek from 1.5 miles upstream of Tennessee River confluence to first bridge crossing (Million Dollar Bridge). Begin collection at the bridge crossing and commence downstream.
Tennessee R	Wilson Res	TENR-260	Lauderdale	Channel catfish Largemouth bass	Dam forebay at Tennesse River mile 259.5.
Tennessee R	Wilson Res	TENR-273	Lauderdale	Channel catfish Largemouth bass	Tennessee River miles 272.0-274.0, 1.0 mile downstream of Blue Water Creek.

CY2013 FISH TISSUE MONITORING

June 11, 2014

Mobile County **Lat/Lon: 29.82978 / -88.02785**

GMEX-6, Gulf Of Mexico - Gulf of Mexico.

Red Snapper (Lutjanus campechanus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	410	395	405	332	443	359
Length (inches)	16.14	15.55	15.94	13.07	17.44	14.13
Weight (g)	906	890	774	546	1,092	690
Weight (oz)	31.96	31.39	27.30	19.26	38.52	24.34
Sex/Age	F/3	F/3	F/2	M/2	M/2	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-12-13	09-12-13	09-12-13	09-12-13	09-12-13	09-12-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/12/2013 GMEX-6 RSN 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.013 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.12
Mercury ug/g	.125
Mirex ug/g	< .01
Selenium ug/g	.32 JI
Toxaphene ug/g	< .05

Spanish Mackerel (Scomberomorus maculatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	685	630	635	609	526	467
Length (inches)	26.97	24.80	25.00	23.98	20.71	18.39
Weight (g)	2,186	1,682	1,602	1,470	916	556
Weight (oz)	77.11	59.33	56.51	51.85	32.31	19.61
Sex/Age	M/2	M/1	M/2	M/2	M/1	M/1
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-28-13	10-28-13	10-28-13	10-28-13	10-28-13	10-28-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/28/2013 GMEX-7 SPM 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	.37 JI
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	3.345
Mercury ug/g	.19
Mirex ug/g	< .01
Selenium ug/g	.38 JI
Toxaphene ug/g	< .05

Monroe County **Lat/Lon: 31.54969 / -87.54117**

ALRM-1, Alabama R - Approximately 2.0 miles downstream of AL Hwy 12/US Hwy 84. River miles 65-66.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	360	645	420	435	460	380
Length (inches)	14.17	25.39	16.54	17.13	18.11	14.96
Weight (g)	338	872	604	762	784	452
Weight (oz)	11.92	30.76	21.31	26.88	27.65	15.94
Sex/Age	F/5	M/6	M/6	F/5	F/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .019	< .022	< .022	< .022	< .022	< .022

	Composite - 6 Fish
Bottle Code: 11/13/2013 ALRM-1 CHC 01-06	
2,3,7,8-TCDD Dioxin ppt	< .5
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
LIPIDS (OUTSIDE LAB) %	.8
Lipid %	.225
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Monroe County **Lat/Lon: 31.54969 / -87.54117**

ALRM-1, Alabama R - Approximately 2.0 miles downstream of AL Hwy 12/US Hwy 84. River miles 65-66.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	430	455	330	380	365	325
Length (inches)	16.93	17.91	12.99	14.96	14.37	12.80
Weight (g)	1,222	1,560	436	664	640	444
Weight (oz)	43.10	55.03	15.38	23.42	22.58	15.66
Sex/Age	F/4	F/4	F/2	M/4	F/3	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.172	.177	< .022	.2	.36	.098

	Composite - 6 Fish
Bottle Code: 11/13/2013 ALRM-1 LMB 01-06	
2,3,7,8-TCDD Dioxin ppt	< .5
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
LIPIDS (OUTSIDE LAB) %	.6
Lipid %	.265
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Monroe County **Lat/Lon: 31.61741 / -87.55058**

CLAM-1, Claiborne Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	376	410	439	390	449	316
Length (inches)	14.80	16.14	17.28	15.35	17.68	12.44
Weight (g)	722	1,072	1,324	812	1,400	378
Weight (oz)	25.47	37.81	46.70	28.64	49.38	13.33
Sex/Age	M/4	F/4	M/6	M/5	M/6	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13	11-13-13
Skin on Fillet	N	N	N	N	N	N
Lesions			Slight/Mild			
Comments			slight leision on the left operculum			
Mercury ug/g	.14	.437	.325	.403	.298	.27

Clarke County **Lat/Lon: 31.82900 / -87.50253**

CLAM-7, Claiborne Res - Claiborne Reservoir in vicinity of Lower Peachtree access area approximately river mile 96. Vicinity of the intersection of Clarke, Monroe and Wilcox Counties.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	365	336	384	342	371	336
Length (inches)	14.37	13.23	15.12	13.46	14.61	13.23
Weight (g)	610	468	662	542	602	452
Weight (oz)	21.52	16.51	23.35	19.12	21.23	15.94
Sex/Age	M/3	F/2	M/4	F/2	M/3	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	11-14-13	11-14-13	11-14-13	11-14-13	11-14-13	11-14-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.236	.222	.283	.251	.191	.284

Dallas County **Lat/Lon: 32.37197 / -86.88897**

DANW-11, Dannelly Res - Approximately 7.5 miles upstream of AL Hwy 41. Alabama River miles 214.9-216.9. Lat/Lon calculated at river mile 214.9.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	375	352	445	411	409	407
Length (inches)	14.76	13.86	17.52	16.18	16.10	16.02
Weight (g)	402	320	714	520	482	508
Weight (oz)	14.18	11.29	25.19	18.34	17.00	17.92
Sex/Age	F/6	F/4	F/6	F/6	F/6	M/7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	11-05-13	11-05-13	11-05-13	11-05-13	11-05-13	11-05-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 11/5/2013 DANW-11 CHC 01-06	
2,3,7,8-TCDD Dioxin ppt	< .5
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
LIPIDS (OUTSIDE LAB) %	.9
Lipid %	.465
Mercury ug/g	.117
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Dallas County **Lat/Lon: 32.37197 / -86.88897**

DANW-11, Dannelly Res - Approximately 7.5 miles upstream of AL Hwy 41. Alabama River miles 214.9-216.9. Lat/Lon calculated at river mile 214.9.

Spotted Bass (Micropterus punctulatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	401	476	433	386	459	450
Length (inches)	15.79	18.74	17.05	15.20	18.07	17.72
Weight (g)	916	1,252	1,112	610	1,194	1,144
Weight (oz)	32.31	44.16	39.22	21.52	42.12	40.35
Sex/Age	F/3	F/4	M/3	F/2	M/3	M/5
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	11-05-13	11-05-13	11-05-13	11-05-13	11-05-13	11-05-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 11/5/2013 DANW-11 SPB 01-06	
2,3,7,8-TCDD Dioxin ppt	< .5
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
LIPIDS (OUTSIDE LAB) %	1.3
Lipid %	.775
Mercury ug/g	.154
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Escambia County **Lat/Lon: 31.02656 / -86.71001**

BKRE-1, Blackwater R - Deepest point, main river channel, approximately 0.5 miles upstream of Co. Rd. 4.

Largemouth Bass (Micropterus salmoides)

	Fish 1
Length (mm)	372
Length (inches)	14.65
Weight (g)	680
Weight (oz)	23.99
Sex/Age	F/4
Age Method	Otolith
Collection Date	11-05-13
Skin on Fillet	N
Mercury ug/g	.13

Spotted Bass (Micropterus punctulatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	352	344	345	456	357
Length (inches)	13.86	13.54	13.58	17.95	14.06
Weight (g)	628	514	572	902	598
Weight (oz)	22.15	18.13	20.18	31.82	21.09
Sex/Age	F/5	F/7	M/7	F/10	M/8
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	11-05-13	11-05-13	11-05-13	11-05-13	11-05-13
Skin on Fillet	N	N	N	N	N
Mercury ug/g	.115	.144	.132	.18	< .019

Escambia County **Lat/Lon: 31.02060 / -87.20712**

LEC-1, Little Escambia Ck - Little Escambia Creek, Escambia Co at US Hwy 31/29 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2
Length (mm)	299	400
Length (inches)	11.77	15.75
Weight (g)	360	846
Weight (oz)	12.70	29.84
Sex/Age	M/4	F/5
Age Method	Otolith	Otolith
Collection Date	11-06-13	11-06-13
Skin on Fillet	N	N
Mercury ug/g	< .019	< .019

Spotted Bass (Micropterus punctulatus)

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	335	334	295	280
Length (inches)	13.19	13.15	11.61	11.02
Weight (g)	518	538	294	252
Weight (oz)	18.27	18.98	10.37	8.89
Sex/Age	F/6	F/8	F/5	F/5
Age Method	Otolith	Otolith	Otolith	Otolith
Collection Date	11-06-13	11-06-13	11-06-13	11-06-13
Skin on Fillet	N	N	N	N
Mercury ug/g	.168	< .019	< .019	< .019

Morgan County **Lat/Lon: 34.63767 / -87.02961**

WHEL-11, Bakers Ck - Bakers Creek upstream of Bakers Creek/Tennessee River confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	372	490	479	445	390	382
Length (inches)	14.65	19.29	18.86	17.52	15.35	15.04
Weight (g)	426	1,004	1,084	700	548	494
Weight (oz)	15.03	35.42	38.24	24.69	19.33	17.43
Sex/Age	M/5	M/7	M/7	M/5	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	.013	.031	< .01	< .01	.011
4,4-DDE ug/g	.24	.072	.123	.02	.016	.061
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	.074	.154	< .05	< .05	< .05	< .05
Total PCB's ug/g	.074	.154	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	3.57	6.595	7.74	2.28	.36	3.505
Mercury ug/g	< .019	< .019	< .019	< .019	< .019	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	< .1433	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Morgan County **Lat/Lon: 34.63767 / -87.02961**

WHEL-11, Bakers Ck - Bakers Creek upstream of Bakers Creek/Tennessee River confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	379	332	345	389	313	356
Length (inches)	14.92	13.07	13.58	15.31	12.32	14.02
Weight (g)	730	470	506	946	390	368
Weight (oz)	25.75	16.58	17.85	33.37	13.76	12.98
Sex/Age	M/5	M/2	M/2	F/3	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	.081	< .05	< .05	.107	< .05	< .05
Total PCB's ug/g	.081	< .05	< .05	.107	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.215	.175	.215	1.125	.135	.24
Mercury ug/g	.128	< .019	< .019	< .019	.101	.113
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	< .1433	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Franklin County **Lat/Lon: 34.31649 / -87.85853**

BERF-4, Bear Ck - Bear Creek at Franklin Co Rd. 53, river mile 95.7.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	525	418	481	471	496	459
Length (inches)	20.67	16.46	18.94	18.54	19.53	18.07
Weight (g)	1,590	696	1,106	1,060	1,222	1,002
Weight (oz)	56.09	24.55	39.01	37.39	43.10	35.34
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.916	.239	.279	.193	.331	.395

	Composite - 6 Fish
Bottle Code: 9/18/2013 BERF-4 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.475
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.31649 / -87.85853**

BERF-4, Bear Ck - Bear Creek at Franklin Co Rd. 53, river mile 95.7.

Spotted Bass (Micropterus punctulatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	401	318	386	332	282	280
Length (inches)	15.79	12.52	15.20	13.07	11.10	11.02
Weight (g)	836	398	734	408	231	267
Weight (oz)	29.49	14.04	25.89	14.39	8.15	9.42
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.614	.512	.76	.778	.585	.407

	Composite - 6 Fish
Bottle Code: 9/18/2013 BERF-4 SPB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.19
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.82400 / -88.10378**

PICL-5, Bear Ck - Main creek channel at Bear Creek embayment. Pickwick Reservoir, Bear Creek embayment, at Bear Creek mile 8.0 approximately 5 miles downstream of Buzzard Roost/Bear Creek confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	505			360	370	370
Length (inches)	19.88			14.17	14.57	14.57
Weight (g)	1,004			378	436	420
Weight (oz)	35.42			13.33	15.38	14.82
Sex/Age	M/8	M/7	M/5	F/6	F/6	M/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13
Skin on Fillet	N	N	N	N	N	N
Comments		Length/weight data lost due to database malfunction.	Length/weight data lost due to database malfunction.			

	Composite - 6 Fish
Bottle Code: 9/17/2013 PICL-5 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.009 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.36
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.82400 / -88.10378**

PICL-5, Bear Ck - Main creek channel at Bear Creek embayment. Pickwick Reservoir, Bear Creek embayment, at Bear Creek mile 8.0 approximately 5 miles downstream of Buzzard Roost/Bear Creek confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	390	385	360	330	350	355
Length (inches)	15.35	15.16	14.17	12.99	13.78	13.98
Weight (g)	794	646	578	498	592	628
Weight (oz)	28.01	22.79	20.39	17.57	20.88	22.15
Sex/Age	F/2	F/2	M/3	F/3	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/17/2013 PICL-5 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.195
Mercury ug/g	.158
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.73444 / -88.08900**

PICL-6, Bear Ck - Bear Creek at Allsboro Rd.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	490	425	382	430	355	358
Length (inches)	19.29	16.73	15.04	16.93	13.98	14.09
Weight (g)	1,260	636	456	665	328	370
Weight (oz)	44.45	22.43	16.08	23.46	11.57	13.05
Sex/Age	M/7	M/5	M/5	M	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites		Slight/Mild				
Comments		Internal parasites				
Mercury ug/g	.155	.115	.219	.122	< .019	< .019

	Composite - 6 Fish	
Bottle Code: 9/17/2013 PICL-6 CHC 01-06		
2,4-DDD ug/g	< .01	
2,4-DDE ug/g	< .01	
2,4-DDT ug/g	< .01	
4,4-DDD ug/g	< .01	
4,4-DDE ug/g	.123	
4,4-DDT ug/g	< .01	
Arochlor 1016 ug/g	< .05	
Arochlor 1221 ug/g	< .05	
Arochlor 1232 ug/g	< .05	
Arochlor 1242 ug/g	< .05	
Arochlor 1248 ug/g	< .05	
Arochlor 1254 ug/g	< .05	
Arochlor 1260 ug/g	< .05	
Total PCB's ug/g	< .05	
Arsenic ug/g	< .1426	
CADMIUM, TOTAL ug/g	< .0076	
Chlordane ug/g	< .01	
Dursban(chlorpyrifos) ug/g	< .01	
Dieldrin ug/g	< .01	
Endosulfan I ug/g	< .01	
Endosulfan II ug/g	< .01	
Endrin ug/g	< .01	
Heptachlor ug/g	< .01	
Heptachlor-epoxide ug/g	< .01	
Hexachlorobenzene ug/g	< .05	
Lindane (gamma BHC) ug/g	< .01	
Lipid %	.89	
Mirex ug/g	< .01	
Selenium ug/g	.19	JI
Toxaphene ug/g	< .05	

Colbert County **Lat/Lon: 34.73444 / -88.08900**

PICL-6, Bear Ck - Bear Creek at Allsboro Rd.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	351	456	363	342	353	336
Length (inches)	13.82	17.95	14.29	13.46	13.90	13.23
Weight (g)	548	1,140	568	524	616	522
Weight (oz)	19.33	40.21	20.04	18.48	21.73	18.41
Sex/Age	F/5	F/6	M/4	M/4	M/3	F/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13	09-17-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.418	.475	.417	.498	.329	.775

	Composite - 6 Fish
Bottle Code: 9/17/2013 PICL-6 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.011 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.2
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.39875 / -87.98717**

BCRF-1, Bear Ck Res - Dam forebay area of Bear Creek Reservoir. Bear Creek mile 75.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	408	491	528	462	379	483
Length (inches)	16.06	19.33	20.79	18.19	14.92	19.02
Weight (g)	517	1,095	1,374	935	446	1,009
Weight (oz)	18.24	38.62	48.47	32.98	15.73	35.59
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-23-13	10-23-13	10-23-13	10-23-13	10-23-13	10-23-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.171	.255	.244	.166	< .022	.211

	Composite - 6 Fish
Bottle Code: 10/23/2013 BCRF-1 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.13
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.39875 / -87.98717**

BCRF-1, Bear Ck Res - Dam forebay area of Bear Creek Reservoir. Bear Creek mile 75.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	422	345	420	335	336	356
Length (inches)	16.61	13.58	16.54	13.19	13.23	14.02
Weight (g)	977	521	964	448	429	585
Weight (oz)	34.46	18.38	34.00	15.80	15.13	20.64
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-23-13	10-23-13	10-23-13	10-23-13	10-23-13	10-23-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.3	.329	.535	.45	.423	.962

	Composite - 6 Fish
Bottle Code: 10/23/2013 BCRF-1 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.15
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.67000 / -87.31722**

BGNL-1, Big Nance Ck - Big Nance Creek in the vicinity of Lawrence Co. Rd. 25.

Creek Chubsucker (Erimyzon oblongus)

	Fish 1	Fish 2	Fish 3
Length (mm)	280	246	250
Length (inches)	11.02	9.69	9.84
Weight (g)	242	168	174
Weight (oz)	8.54	5.93	6.14
Sex/Age	F	M	M
Age Method	N/A	N/A	N/A
Collection Date	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N
Mercury ug/g	.179	.104	< .019

	Composite - 3 Fish
Bottle Code: 10/16/2013 BGNL-1 CRC 01-03	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.16
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.38 JI
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.67000 / -87.31722**

BGNL-1, Big Nance Ck - Big Nance Creek in the vicinity of Lawrence Co. Rd. 25.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	330	319	257	253	262
Length (inches)	12.99	12.56	10.12	9.96	10.31
Weight (g)	500	438	258	236	200
Weight (oz)	17.64	15.45	9.10	8.32	7.05
Sex/Age	F/5	M/4	F/3	M/2	M/1
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N
Mercury ug/g	.379	.247	.377	.411	.179

	Composite - 5 Fish
Bottle Code: 10/16/2013 BGNL-1 LMB 01-05	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.145
Mirex ug/g	< .01
Selenium ug/g	.16 JI
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.67000 / -87.31722**

BGNL-1, Big Nance Ck - Big Nance Creek in the vicinity of Lawrence Co. Rd. 25.

Spotted Sucker (Minytrema melanops)

	Fish 1	Fish 2
Length (mm)	309	236
Length (inches)	12.17	9.29
Weight (g)	312	128
Weight (oz)	11.01	4.52
Sex/Age	M	M
Age Method	N/A	N/A
Collection Date	10-16-13	10-16-13
Skin on Fillet	N	N
Mercury ug/g	.178	.12

	Composite - 2 Fish
Bottle Code: 10/16/2013 BGNL-1 SPS 01-02	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.115
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.77935 / -87.39315**

WILL-1, Big Nance Ck - Deepest point, main creek channel, Big Nance Creek embayment, immediately upstream of AL Hwy 101 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	445	466	415	385	445	430
Length (inches)	17.52	18.35	16.34	15.16	17.52	16.93
Weight (g)	876	728	640	476	780	730
Weight (oz)	30.90	25.68	22.58	16.79	27.51	25.75
Sex/Age	M/5	M/6	M/6	M/5	F/5	F/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	.647	.176	.299	1.132	.331	.743
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	.012 JI	.012 JI	< .0076	< .0076	.01 JI	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	1.265	.955	1.725	.415	1.6	1.405
Mercury ug/g	< .019	.093	.136	.236	.224	.3
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	.22 JI	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Lawrence County **Lat/Lon: 34.77935 / -87.39315**

WILL-1, Big Nance Ck - Deepest point, main creek channel, Big Nance Creek embayment, immediately upstream of AL Hwy 101 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	440	450	452	430	381	340
Length (inches)	17.32	17.72	17.80	16.93	15.00	13.39
Weight (g)	1,362	1,408	1,708	1,184	894	586
Weight (oz)	48.04	49.67	60.25	41.76	31.53	20.67
Sex/Age	F	F/7	F/5	M/4	M/2	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N
Deformities					Slight/Mild	
Lesions					Slight/Mild	Slight/Mild
Comments					leision on eyes	slight leision on pectotal fin
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	.311	.13	.189	< .01	.114	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	.017 JI	< .0076	< .0076	.017 JI	.013 JI	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	1.505	.74	.655	.195	.56	.625
Mercury ug/g	.253	1.232	.46	.376	< .019	.082
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	.18 JI	< .1433	< .1433	.16 JI	.19 JI	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Colbert County **Lat/Lon: 34.74694 / -87.86389**

PICL-3, Cane Ck - Cane Creek embayment approximately 1 mile upstream of confluence with Tennessee River.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	469	519	483	513	575	441
Length (inches)	18.46	20.43	19.02	20.20	22.64	17.36
Weight (g)	886	1,008	1,148	958	1,390	668
Weight (oz)	31.25	35.56	40.49	33.79	49.03	23.56
Sex/Age	F/5	F/7	M/6	F/7	F/9	F/6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites					Slight/Mild	
Comments					Slight internal parasites	
Mercury ug/g	< .019	.112	< .019	.118	.139	< .019

	Composite - 6 Fish
Bottle Code: 10/9/2013 PICL-3 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.017
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.71
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.74694 / -87.86389**

PICL-3, Cane Ck - Cane Creek embayment approximately 1 mile upstream of confluence with Tennessee River.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	480	440	375	320	400	350
Length (inches)	18.90	17.32	14.76	12.60	15.75	13.78
Weight (g)	1,606	1,140	712	410	1,002	730
Weight (oz)	56.65	40.21	25.12	14.46	35.34	25.75
Sex/Age	F/5	F/3	F/2	M/2	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13
Skin on Fillet	N	N	N	N	N	N
Lesions			Slight/Mild			
Comments			Slight external lesion--hook wound			
Mercury ug/g	.311	.195	.11	< .019	.09	.103

	Composite - 6 Fish
Bottle Code: 10/9/2013 PICL-3 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.011
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.37
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.54403 / -87.97369**

CEDF-2, Cedar Ck Res - Dam forebay to 1.0 mile upstream of the dam.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	418	427	438	418	433	414
Length (inches)	16.46	16.81	17.24	16.46	17.05	16.30
Weight (g)	612	644	676	494	586	484
Weight (oz)	21.59	22.72	23.85	17.43	20.67	17.07
Sex/Age	F	M				
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-21-13	10-21-13	10-21-13	10-21-13	10-21-13	10-21-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.187	< .022	.148	.089	< .022	.155

	Composite - 6 Fish
Bottle Code: 10/21/2013 CEDF-2 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.05
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.54403 / -87.97369**

CEDF-2, Cedar Ck Res - Dam forebay to 1.0 mile upstream of the dam.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	355	364	362	428	320	365
Length (inches)	13.98	14.33	14.25	16.85	12.60	14.37
Weight (g)	564	555	594	952	405	704
Weight (oz)	19.89	19.58	20.95	33.58	14.29	24.83
Sex/Age	M	F	F	F		
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-21-13	10-21-13	10-21-13	10-21-13	10-21-13	10-21-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.242	.196	.179	.285	.158	.188

	Composite - 6 Fish
Bottle Code: 10/21/2013 CEDF-2 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	< .1
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.83665 / -85.82496**

GUNM-1, Crow Ck - Deepest point, main creek channel, Crow Creek embayment, approximately 0.5 mile downstream of US Hwy 72 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	490	460	480	540	485	485
Length (inches)	19.29	18.11	18.90	21.26	19.09	19.09
Weight (g)	932	848	996	1,432	1,124	1,050
Weight (oz)	32.88	29.91	35.13	50.51	39.65	37.04
Sex/Age	M/7	F/6	M/6	M/6	M/7	F
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-1 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.295
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.83665 / -85.82496**

GUNM-1, Crow Ck - Deepest point, main creek channel, Crow Creek embayment, approximately 0.5 mile downstream of US Hwy 72 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	390	445	380	380	360	355
Length (inches)	15.35	17.52	14.96	14.96	14.17	13.98
Weight (g)	870	1,466	902	836	654	588
Weight (oz)	30.69	51.71	31.82	29.49	23.07	20.74
Sex/Age	F/4	F/5	M/5	F/3	M/4	M/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-1 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.34
Mercury ug/g	.182
Mirex ug/g	< .01
Selenium ug/g	.31 JI
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.78814 / -87.69709**

PICL-1, Cypress Ck - Deepest point, main creek channel, Cypress Creek embayment, approximately 0.5 mile upstream of AL Hwy 20.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	345	453	329	332	400	368
Length (inches)	13.58	17.83	12.95	13.07	15.75	14.49
Weight (g)	322	832	308	364	538	378
Weight (oz)	11.36	29.35	10.86	12.84	18.98	13.33
Sex/Age	M/4	F/6	M/6	M/3	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-24-13	09-24-13	09-24-13	09-24-13	09-24-13	09-24-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	< .01	.163	.134	< .01	< .01	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	.009 JI	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.49	.43	.4	.76	.365	.16
Mercury ug/g	.125	.147	< .019	< .019	.093	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	.23 JI	.15 JI	.18 JI	< .1433	.17 JI
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Lauderdale County **Lat/Lon: 34.78814 / -87.69709**

PICL-1, Cypress Ck - Deepest point, main creek channel, Cypress Creek embayment, approximately 0.5 mile upstream of AL Hwy 20.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	408	455	350	417	387	377
Length (inches)	16.06	17.91	13.78	16.42	15.24	14.84
Weight (g)	960	1,580	652	1,092	846	912
Weight (oz)	33.86	55.73	23.00	38.52	29.84	32.17
Sex/Age	F/3	M/5	M/3	M/6	M/3	M/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-24-13	09-24-13	09-24-13	09-24-13	09-24-13	09-24-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	< .01	< .01	< .01	.134	< .01	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	.009 JI	.008 JI	.016 JI	.012 JI
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	3.005	.2	.24	.39	.285	.16
Mercury ug/g	< .019	< .019	.339	.699	.45	.136
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	.22 JI	< .1433	.18 JI	.25 JI	.21 JI	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Jackson County **Lat/Lon: 34.63231 / -86.01811**

GUNM-4, Dry Ck - Deepest point, main creek channel, Roseberry/Dry Creek embayment, approximately 0.5 mile downstream of Jackson County Park.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	467	572	480	485	425	369
Length (inches)	18.39	22.52	18.90	19.09	16.73	14.53
Weight (g)	1,088	1,936	1,170	1,060	692	454
Weight (oz)	38.38	68.29	41.27	37.39	24.41	16.01
Sex/Age	M/5	F/8	F/6	M/6	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites			Slight/Mild	Moderate	Slight/Mild	Slight/Mild
Comments			Slight internal parasites	Moderate internal parasites	Slight internal parasites	Slight internal parasites

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-4 CHC 01-06	
2,4-DDD ug/g	.011
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.255
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.16 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.63231 / -86.01811**

GUNM-4, Dry Ck - Deepest point, main creek channel, Roseberry/Dry Creek embayment, approximately 0.5 mile downstream of Jackson County Park.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	403	340	369	417	328	341
Length (inches)	15.87	13.39	14.53	16.42	12.91	13.43
Weight (g)	724	422	646	1,012	448	554
Weight (oz)	25.54	14.89	22.79	35.70	15.80	19.54
Sex/Age	M/3	M/1	M/2	M/3	M/1	M
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites						Slight/Mild
Comments						Slight internal parasites

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-4 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.008 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.16
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.31 JI
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.81025 / -87.22350**

ELKL-1, Elk R - Elk River embayment approximately river mile 6 (NE 1/4, Sec 12).

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	392	333	367	345	365	561
Length (inches)	15.43	13.11	14.45	13.58	14.37	22.09
Weight (g)	488	276	370	326	398	1,560
Weight (oz)	17.21	9.74	13.05	11.50	14.04	55.03
Sex/Age	M/4	F/4	F/5	F/6	F/6	F/8
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites				Slight/Mild		Slight/Mild
Comments				Slight internal parasites		Slight internal parasites

	Composite - 6 Fish
Bottle Code: 10/1/2013 ELKL-1 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.024
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.955
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.81025 / -87.22350**

ELKL-1, Elk R - Elk River embayment approximately river mile 6 (NE 1/4, Sec 12).

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	365	467	399	410	375	438
Length (inches)	14.37	18.39	15.71	16.14	14.76	17.24
Weight (g)	662	1,390	872	878	732	1,350
Weight (oz)	23.35	49.03	30.76	30.97	25.82	47.62
Sex/Age	M/2	F/5	M/3	F/2	F	F/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Lesions		Severe/Heavy				
Comments		one eye missing and the other side was blind				

	Composite - 6 Fish
Bottle Code: 10/1/2013 ELKL-1 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.014
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.62
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Morgan County **Lat/Lon: 34.49114 / -86.96539**

FTCM-6, Flint Ck - Flint Creek downstream of Flint Creek/West Flint Creek confluence. Vicinity of US Hwy 31.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	346	396	363	415	386	350
Length (inches)	13.62	15.59	14.29	16.34	15.20	13.78
Weight (g)	340	524	360	600	432	308
Weight (oz)	11.99	18.48	12.70	21.16	15.24	10.86
Sex/Age	M/6	M/7	M/5	F/7	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.114	.151	< .022	< .022	< .022	< .022

	Composite - 6 Fish
Bottle Code: 10/1/2013 FTCM-6 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.016
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.795
Mercury ug/g	.091
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Morgan County **Lat/Lon: 34.49114 / -86.96539**

FTCM-6, Flint Ck - Flint Creek downstream of Flint Creek/West Flint Creek confluence. Vicinity of US Hwy 31.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	362	370	404	394	375	355
Length (inches)	14.25	14.57	15.91	15.51	14.76	13.98
Weight (g)	696	754	750	922	760	582
Weight (oz)	24.55	26.60	26.46	32.52	26.81	20.53
Sex/Age	F/4	M/4	F/4	F/5	M/5	M/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.334	.309	.378	.617	.599	.308

	Composite - 6 Fish
Bottle Code: 10/1/2013 FTCM-6 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.545
Mercury ug/g	.343
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Morgan County **Lat/Lon: 34.55889 / -86.94806**

WHEL-6, Flint Ck - Deepest point, main creek channel, Flint Creek embayment, 1 mile downstream of Co Rd 67 bridge at public access area.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	405	450	460	520	485	480
Length (inches)	15.94	17.72	18.11	20.47	19.09	18.90
Weight (g)	584	676	962	1,074	964	922
Weight (oz)	20.60	23.85	33.93	37.88	34.00	32.52
Sex/Age	M/6	F/4	F/6	F/6	F/5	M/6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-6 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.03
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	.051
Total PCB's ug/g	.051
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.027
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.97
Mercury ug/g	.148
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Morgan County **Lat/Lon: 34.55889 / -86.94806**

WHEL-6, Flint Ck - Deepest point, main creek channel, Flint Creek embayment, 1 mile downstream of Co Rd 67 bridge at public access area.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	405	375	310	415	360	325
Length (inches)	15.94	14.76	12.20	16.34	14.17	12.80
Weight (g)	1,054	680	450	1,156	610	488
Weight (oz)	37.18	23.99	15.87	40.78	21.52	17.21
Sex/Age	M/4	M/3	M/2	F/6	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Lesions				Slight/Mild		
Comments				slight external leision		

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-6 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.18
Mercury ug/g	.27
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.42378 / -86.37447**

TENR-350, Guntersville Res - Dam forebay area. Tennessee River mile 350, downstream of Honeycomb Creek.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	450	450	390	470	430	460
Length (inches)	17.72	17.72	15.35	18.50	16.93	18.11
Weight (g)	828	863	562	757	626	693
Weight (oz)	29.21	30.44	19.82	26.70	22.08	24.44
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 8/29/2013 TENR-350 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.69
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.42378 / -86.37447**

TENR-350, Guntersville Res - Dam forebay area. Tennessee River mile 350, downstream of Honeycomb Creek.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	445	415	450	462	404	385
Length (inches)	17.52	16.34	17.72	18.19	15.91	15.16
Weight (g)	1,395	1,127	1,570	1,527	966	848
Weight (oz)	49.21	39.75	55.38	53.86	34.07	29.91
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 8/29/2013 TENR-350 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	.047
Total PCB's ug/g	.047
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.22
Mercury ug/g	.107
Mirex ug/g	< .01
Selenium ug/g	.42 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.55231 / -86.12161**

TENR-375, Guntersville Res - Guntersville Reservoir, TRM-375 between the confluences of South Sauty Creek and the Tennessee River and North Sauty Creek and the Tennessee River.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	510	525	482	461	519	520
Length (inches)	20.08	20.67	18.98	18.15	20.43	20.47
Weight (g)	1,247	1,081	1,028	894	1,234	1,430
Weight (oz)	43.99	38.13	36.26	31.53	43.53	50.44
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 8/29/2013 TENR-375 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	.283
Arochlor 1260 ug/g	.082
Total PCB's ug/g	.365
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.465
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.55231 / -86.12161**

TENR-375, Guntersville Res - Guntersville Reservoir, TRM-375 between the confluences of South Sauty Creek and the Tennessee River and North Sauty Creek and the Tennessee River.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	416	374	425	450	445	444
Length (inches)	16.38	14.72	16.73	17.72	17.52	17.48
Weight (g)	934	685	1,146	1,040	1,321	1,206
Weight (oz)	32.95	24.16	40.42	36.68	46.60	42.54
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 8/25/2013 TENR-375 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	.21 JI
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.49
Mercury ug/g	.098
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.88591 / -85.74565**

TENR-408, Guntersville Res - Guntersville Reservoir, vicinity of Tennessee River mile 408. Just downstream of Widows Creek.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	465	535	513	435	496	415
Length (inches)	18.31	21.06	20.20	17.13	19.53	16.34
Weight (g)	888	1,514	1,240	704	1,132	626
Weight (oz)	31.32	53.40	43.74	24.83	39.93	22.08
Sex/Age	F/5	M/6	M/7	M/5	M/7	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .019	< .019	< .019	< .019	< .019	< .019

	Composite - 6 Fish
Bottle Code: 10/7/2013 TENR-408 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.43
Mirex ug/g	< .01
Selenium ug/g	.17 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.88591 / -85.74565**

TENR-408, Guntersville Res - Guntersville Reservoir, vicinity of Tennessee River mile 408. Just downstream of Widows Creek.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	456	405	344	365	331	316
Length (inches)	17.95	15.94	13.54	14.37	13.03	12.44
Weight (g)	1,158	796	572	540	492	390
Weight (oz)	40.85	28.08	20.18	19.05	17.35	13.76
Sex/Age	M/6	M/3	M/5	M/3	M/2	M/1
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites		Moderate	Slight/Mild	Slight/Mild	Slight/Mild	
Comments		moderate internal parasitic infestation	slight infestation by internal parasites	slight infestation by internal parasites56	slight internal worms	
Mercury ug/g	.34	< .019	.114	.133	.12	.098

	Composite - 6 Fish
Bottle Code: 10/7/2013 TENR-408 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.255
Mirex ug/g	< .01
Selenium ug/g	.67
Toxaphene ug/g	< .05

Madison County **Lat/Lon: 34.58431 / -86.72915**

WHEL-3, Indian Ck - Deepest point, main creek channel, Indian Creek embayment, 1 mile upstream of lake confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	348	385	472	390	420	400
Length (inches)	13.70	15.16	18.58	15.35	16.54	15.75
Weight (g)	698	426	1,004	490	562	530
Weight (oz)	24.62	15.03	35.42	17.28	19.82	18.70
Sex/Age	M/6	M/4	F/6	M/5	M/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	.011	.017	.024
2,4-DDE ug/g	< .01	< .01	< .01	.021	.018	.046
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	.05	.061	.013	.107	.065	.161
4,4-DDE ug/g	.108	.113	.069	.339	.162	.46
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	.385	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	.123	.129	.091	< .05	< .05	< .05
Total PCB's ug/g	.123	.514	.091	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.89	.42	.555	.26	.29	.83
Mercury ug/g	< .019	< .019	< .019	.114	.099	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	< .1433	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Madison County **Lat/Lon: 34.58431 / -86.72915**

WHEL-3, Indian Ck - Deepest point, main creek channel, Indian Creek embayment, 1 mile upstream of lake confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	435	415	362	333	403	334
Length (inches)	17.13	16.34	14.25	13.11	15.87	13.15
Weight (g)	1,310	1,162	690	492	900	526
Weight (oz)	46.21	40.99	24.34	17.35	31.75	18.55
Sex/Age	M/5	F/4	F/2	F/2	F/4	M/5
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	.07	.059	.078	.038	.014	< .01
4,4-DDE ug/g	.141	.121	.21	.122	.026	.044
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	.155	.24	< .05	< .05	< .05
Total PCB's ug/g	< .05	.155	.24	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.415	.32	.46	.24	.32	.145
Mercury ug/g	.132	.164	< .022	< .022	.199	.297
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	.18 JI	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Limestone County **Lat/Lon: 34.59333 / -86.89028**

WHEL-5, Limestone Ck - Limestone Creek embayment beginning approximately 1 mile upstream of confluence with Tennessee River.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	520	466	382	526	409	426
Length (inches)	20.47	18.35	15.04	20.71	16.10	16.77
Weight (g)	1,388	908	486	1,304	678	576
Weight (oz)	48.96	32.03	17.14	46.00	23.92	20.32
Sex/Age	F/7	M/5	F/5	F/7	F/6	F/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .022	< .019	< .019	< .019	< .019	< .019

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-5 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	.021
4,4-DDE ug/g	.122
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.835
Mercury ug/g	.121
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Limestone County **Lat/Lon: 34.59333 / -86.89028**

WHEL-5, Limestone Ck - Limestone Creek embayment beginning approximately 1 mile upstream of confluence with Tennessee River.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	341	339	419	395	341	351
Length (inches)	13.43	13.35	16.50	15.55	13.43	13.82
Weight (g)	546	652	1,182	832	590	586
Weight (oz)	19.26	23.00	41.69	29.35	20.81	20.67
Sex/Age	F/2	M/2	F/4	F/3	M/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .019	.098	< .019	.107	< .019	< .019

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-5 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.018
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.24
Mercury ug/g	.239
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.45193 / -87.97322**

LBRF-2, Little Bear Ck Res - Dam forebay area, Little Bear Creek mile 12.5.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	448	477	481	445	462	421
Length (inches)	17.64	18.78	18.94	17.52	18.19	16.57
Weight (g)	883	1,189	1,029	868	948	696
Weight (oz)	31.15	41.94	36.30	30.62	33.44	24.55
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-24-13	10-24-13	10-24-13	10-24-13	10-24-13	10-24-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.093	< .022	< .022	< .022	< .022	< .022

	Composite - 6 Fish
Bottle Code: 10/24/2013 LBRF-2 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	.24 JI
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	4.41
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Franklin County **Lat/Lon: 34.45193 / -87.97322**

LBRF-2, Little Bear Ck Res - Dam forebay area, Little Bear Creek mile 12.5.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	345	425	383	446	366	401
Length (inches)	13.58	16.73	15.08	17.56	14.41	15.79
Weight (g)	577	948	763	1,472	668	857
Weight (oz)	20.35	33.44	26.91	51.92	23.56	30.23
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-24-13	10-24-13	10-24-13	10-24-13	10-24-13	10-24-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.193	.341	.492	.399	.42	.333

	Composite - 6 Fish
Bottle Code: 10/24/2013 LBRF-2 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.25
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.75460 / -85.90090**

GUNM-3B, Mud Ck - Mud Creek embayment upstream of Jackson Co Rd 213.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	585	565	490	383	354	314
Length (inches)	23.03	22.24	19.29	15.08	13.94	12.36
Weight (g)	1,964	1,716	948	488	412	232
Weight (oz)	69.28	60.53	33.44	17.21	14.53	8.18
Sex/Age	F/5	M/6	M/7	F/5	F/4	M/3
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites		Moderate		Slight/Mild	Slight/Mild	Slight/Mild
Comments		Moderate internal parasites		Slight internal parasites	Slight internal parasites	Slight internal parasites

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-3B CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.245
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.75460 / -85.90090**

GUNM-3B, Mud Ck - Mud Creek embayment upstream of Jackson Co Rd 213.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	381	369	414	391	406	429
Length (inches)	15.00	14.53	16.30	15.39	15.98	16.89
Weight (g)	726	742	1,196	772	908	1,092
Weight (oz)	25.61	26.17	42.19	27.23	32.03	38.52
Sex/Age	F/2	F/2	F/2	M/2	F/3	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites				Severe/Heavy		
Comments				severe internal parasites		

	Composite - 6 Fish
Bottle Code: 10/7/2013 GUNM-3B LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.41
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.35 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.59347 / -86.09138**

GUNM-5, N Sauty Ck - Deepest point, main creek channel, North Sauty Creek embayment, immediately upstream of AL Hwy 79 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	532	505	453	515
Length (inches)	20.94	19.88	17.83	20.28
Weight (g)	1,042	1,156	728	1,384
Weight (oz)	36.76	40.78	25.68	48.82
Sex/Age	F/7	F/7	F/6	F/7
Age Method	Spine	Spine	Spine	Spine
Collection Date	10-16-13	10-23-13	10-23-13	10-23-13
Skin on Fillet	N	N	N	N
Internal Parasites	Slight/Mild			
Comments	Slight internal parasites			

	Composite - 4 Fish
Bottle Code: 10/16/2013 GUNM-5 CHC 01-04	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.017
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	.081
Total PCB's ug/g	.081
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.37
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.59347 / -86.09138**

GUNM-5, N Sauty Ck - Deepest point, main creek channel, North Sauty Creek embayment, immediately upstream of AL Hwy 79 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	336	336	334	373	346	406
Length (inches)	13.23	13.23	13.15	14.69	13.62	15.98
Weight (g)	518	512	576	758	632	940
Weight (oz)	18.27	18.06	20.32	26.74	22.29	33.16
Sex/Age	M/2	M/2	F/2	F/2	F/3	F/4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/16/2013 GUNM-5 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.25
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.89692 / -88.01547**

TENR-230, Pickwick Res - Vicinity of Tennesse River mile 230, 2.5 miles upstream of Tennessee River/Second Creek confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	476	463	511	456	439	413
Length (inches)	18.74	18.23	20.12	17.95	17.28	16.26
Weight (g)	976	860	1,310	864	678	716
Weight (oz)	34.43	30.34	46.21	30.48	23.92	25.26
Sex/Age	M/5	M/5	F/5	M/5	M/5	M/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/18/2013 TENR-230 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.538
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	3.005
Mercury ug/g	.085
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.89692 / -88.01547**

TENR-230, Pickwick Res - Vicinity of Tennesse River mile 230, 2.5 miles upstream of Tennessee River/Second Creek confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	365	401	339	404	374	395
Length (inches)	14.37	15.79	13.35	15.91	14.72	15.55
Weight (g)	786	978	626	844	738	766
Weight (oz)	27.73	34.50	22.08	29.77	26.03	27.02
Sex/Age	M/3	F/3	F/2	M/4	F/2	F/4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13	09-18-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/18/2013 TENR-230 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.015 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.55
Mercury ug/g	.138
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.74306 / -87.74656**

TENR-253, Pickwick Res - Pickwick Reservoir between Tennessee River miles 251.0-255.0, near Sheffield, AL.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	370	465	406	525	419	375
Length (inches)	14.57	18.31	15.98	20.67	16.50	14.76
Weight (g)	362	816	506	1,162	576	402
Weight (oz)	12.77	28.78	17.85	40.99	20.32	14.18
Sex/Age	M/6	F/6	F/5	F/7	M/6	M/6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild	Slight/Mild	Slight/Mild	Moderate	Slight/Mild	Moderate
Lesions			Slight/Mild			
Comments	mild parasites	mild internal parasitic infestation	Slight internal parasites; Slight lesion on head	moderte internal parasitc infestation	light internal parasitic infestation	moderate internal parasites
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	.018	< .01	< .01
4,4-DDE ug/g	< .01	.045	.069	.0137	.042	.026
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.845	3.36	.845	1.555	1.225	1.77
Mercury ug/g	< .019	< .019	.075	.238	.078	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	< .1433	< .1433	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Lauderdale County **Lat/Lon: 34.74306 / -87.74656**

TENR-253, Pickwick Res - Pickwick Reservoir between Tennessee River miles 251.0-255.0, near Sheffield, AL.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	410	440	374	456	420	344
Length (inches)	16.14	17.32	14.72	17.95	16.54	13.54
Weight (g)	1,066	1,276	698	1,514	1,056	480
Weight (oz)	37.60	45.01	24.62	53.40	37.25	16.93
Sex/Age	F/5	M/5	F/2	F/5	F/5	M/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13	10-09-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	.012	.041	< .01	< .01	< .01	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.435	1.245	.23	.51	.255	.45
Mercury ug/g	.226	.212	.223	.211	.212	.218
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	.15 JI	< .1433	.16 JI	< .1433	.15 JI
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Limestone County **Lat/Lon: 34.69864 / -87.05074**

WHEL-8, Round Island Ck - Deepest point, main creek channel, Round Island Creek embayment, approximately 1.5 miles upstream of lake confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	436	376	517	428	365	337
Length (inches)	17.17	14.80	20.35	16.85	14.37	13.27
Weight (g)	636	442	1,378	656	372	322
Weight (oz)	22.43	15.59	48.61	23.14	13.12	11.36
Sex/Age	M/5	M/5	M/5	M/6	M/6	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .022	.097	< .022	.131	.088	.141

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-8 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.042
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.26
Mercury ug/g	.099
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Limestone County **Lat/Lon: 34.69864 / -87.05074**

WHEL-8, Round Island Ck - Deepest point, main creek channel, Round Island Creek embayment, approximately 1.5 miles upstream of lake confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	383	336	342	328	349	354
Length (inches)	15.08	13.23	13.46	12.91	13.74	13.94
Weight (g)	770	578	530	474	648	564
Weight (oz)	27.16	20.39	18.70	16.72	22.86	19.89
Sex/Age	F/4	F/2	M/2	M/2	M/2	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.439	.292	< .022	.124	.145	.171

	Composite - 6 Fish
Bottle Code: 10/1/2013 WHEL-8 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.515
Mercury ug/g	.247
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.51917 / -86.10389**

GUNM-6, S Sauty Ck - Deepest point, main creek channel, South Sauty Creek embayment, immediately upstream of Co Rd 67 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	450	450	450	520	430	435
Length (inches)	17.72	17.72	17.72	20.47	16.93	17.13
Weight (g)	762	858	712	1,270	650	534
Weight (oz)	26.88	30.27	25.12	44.80	22.93	18.84
Sex/Age	M/6	M/7	F/5	M/8	M/6	M/7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-08-13	10-08-13	10-08-13	10-08-13	10-08-13	10-08-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/8/2013 GUNM-6 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.019
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.98
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	.22 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.51917 / -86.10389**

GUNM-6, S Sauty Ck - Deepest point, main creek channel, South Sauty Creek embayment, immediately upstream of Co Rd 67 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	350	345	330	450	315	325
Length (inches)	13.78	13.58	12.99	17.72	12.40	12.80
Weight (g)	556	472	432	1,516	388	386
Weight (oz)	19.61	16.65	15.24	53.48	13.69	13.62
Sex/Age	M/2	F/2	F/2	M/5	M/2	M
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-08-13	10-08-13	10-08-13	10-08-13	10-08-13	10-08-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/8/2013 GUNM-6 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.011
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.41
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.83745 / -87.37147**

WHEL-10, Second Ck - Deepest point, main creek channel, Second Creek embayment, approximately 0.5 mile downstream of Hwy 72 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	355	349	425	465	314	323
Length (inches)	13.98	13.74	16.73	18.31	12.36	12.72
Weight (g)	346	312	720	974	200	244
Weight (oz)	12.20	11.01	25.40	34.36	7.05	8.61
Sex/Age	M/5	M/5	F/6	M/8	F/4	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/30/2013 WHEL-10 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.036
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.53
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.83745 / -87.37147**

WHEL-10, Second Ck - Deepest point, main creek channel, Second Creek embayment, approximately 0.5 mile downstream of Hwy 72 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	398	439	336	320	305	351
Length (inches)	15.67	17.28	13.23	12.60	12.01	13.82
Weight (g)	816	1,138	494	368	360	594
Weight (oz)	28.78	40.14	17.43	12.98	12.70	20.95
Sex/Age	F/5	F/7	F/2	M/1	F/1	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild					
Comments	On the right fillet					

	Composite - 6 Fish
Bottle Code: 9/30/2013 WHEL-10 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.012
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.245
Mercury ug/g	.164
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.85183 / -87.56932**

WILL-4, Shoal Ck - Deepest point, main creek channel, Shoal Creek embayment, immediately upstream of US Hwy 72 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	382	437	390	386	406	415
Length (inches)	15.04	17.20	15.35	15.20	15.98	16.34
Weight (g)	386	524	490	500	572	542
Weight (oz)	13.62	18.48	17.28	17.64	20.18	19.12
Sex/Age	M/5	F/4	M/5	F/5	M/6	M/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/25/2013 WILL-4 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.393
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.009 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.21
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.85183 / -87.56932**

WILL-4, Shoal Ck - Deepest point, main creek channel, Shoal Creek embayment, immediately upstream of US Hwy 72 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	395	432	339	357	347	350
Length (inches)	15.55	17.01	13.35	14.06	13.66	13.78
Weight (g)	1,034	1,274	706	680	674	664
Weight (oz)	36.47	44.94	24.90	23.99	23.77	23.42
Sex/Age	F/2	F/4	F/2	M/2	F/2	M/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/25/2013 WILL-4 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.146
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.008 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.81
Mercury ug/g	.102
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.36454 / -86.21693**

GUNM-8, Short Ck - Deepest point, main creek channel, Short Creek embayment, immediately upstream of AL Hwy 227 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	395	491	400	482	430	476
Length (inches)	15.55	19.33	15.75	18.98	16.93	18.74
Weight (g)	534	1,006	588	1,138	750	1,052
Weight (oz)	18.84	35.49	20.74	40.14	26.46	37.11
Sex/Age	F/5	F/8	M/6	F/6	M/5	F/7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-17-13	10-17-13	10-17-13	10-23-13	10-23-13	10-23-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.169	.158	.096	< .019	< .019	.094

	Composite - 6 Fish
Bottle Code: 10/17/2013 GUNM-8 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.015
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.29
Mirex ug/g	< .01
Selenium ug/g	.22 JI
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.36454 / -86.21693**

GUNM-8, Short Ck - Deepest point, main creek channel, Short Creek embayment, immediately upstream of AL Hwy 227 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	415	390	350	410	355	430
Length (inches)	16.34	15.35	13.78	16.14	13.98	16.93
Weight (g)	1,284	916	596	1,196	674	1,294
Weight (oz)	45.29	32.31	21.02	42.19	23.77	45.64
Sex/Age	F/3	F/3	F/2	M/2	M/2	F/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.133	.115	.086	.084	.162	.108

	Composite - 6 Fish
Bottle Code: 10/17/2013 GUNM-8 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.022
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	.078
Total PCB's ug/g	.078
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.115
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.34520 / -86.29182**

GUNM-9, Spring Ck - Deepest point, main creek channel, Spring Creek embayment, immediately upstream of AL Hwy 227 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	481	346	379	500	431	490
Length (inches)	18.94	13.62	14.92	19.69	16.97	19.29
Weight (g)	1,066	360	590	1,122	868	1,242
Weight (oz)	37.60	12.70	20.81	39.58	30.62	43.81
Sex/Age	M/7	M/3	F/4	F/8	M/6	F/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/16/2013 GUNM-9 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	4.73
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.34520 / -86.29182**

GUNM-9, Spring Ck - Deepest point, main creek channel, Spring Creek embayment, immediately upstream of AL Hwy 227 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	374	432	371	426	365
Length (inches)	14.72	17.01	14.61	16.77	14.37
Weight (g)	740	1,200	712	1,264	638
Weight (oz)	26.10	42.33	25.12	44.59	22.50
Sex/Age	F/3	F/4	M/4	F/3	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N
Internal Parasites	Severe/Heavy	Slight/Mild	Slight/Mild		
Comments	severe internal parasites	slight internal parasites	slight internal parasites		

	Composite - 5 Fish
Bottle Code: 10/16/2013 GUNM-9 LMB 01-05	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.75
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	.15 JI
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.34520 / -86.29182**

GUNM-9, Spring Ck - Deepest point, main creek channel, Spring Creek embayment, immediately upstream of AL Hwy 227 bridge.

Spotted Bass (Micropterus punctulatus)

	Fish 1	
Length (mm)	463	
Length (inches)	18.23	
Weight (g)	1,400	
Weight (oz)	49.38	
Sex/Age	F/4	
Age Method	Otolith	
Collection Date	10-16-13	
Skin on Fillet	N	
2,4-DDD ug/g	.022	
2,4-DDE ug/g	< .01	
2,4-DDT ug/g	< .01	
4,4-DDD ug/g	< .01	
4,4-DDE ug/g	.064	
4,4-DDT ug/g	< .01	
Arochlor 1016 ug/g	< .05	
Arochlor 1221 ug/g	< .05	
Arochlor 1232 ug/g	< .05	
Arochlor 1242 ug/g	< .05	
Arochlor 1248 ug/g	< .05	
Arochlor 1254 ug/g	< .05	
Arochlor 1260 ug/g	< .05	
Total PCB's ug/g	< .05	
Arsenic ug/g	< .1426	
CADMIUM, TOTAL ug/g	< .0076	
Chlordane ug/g	< .01	
Dursban(chlorpyrifos) ug/g	< .01	
Dieldrin ug/g	< .01	
Endosulfan I ug/g	< .01	
Endosulfan II ug/g	< .01	
Endrin ug/g	< .01	
Heptachlor ug/g	< .01	
Heptachlor-epoxide ug/g	< .01	
Hexachlorobenzene ug/g	< .05	
Lindane (gamma BHC) ug/g	< .01	
Lipid %	7.24	
Mercury ug/g	< .022	
Mirex ug/g	< .01	
Selenium ug/g	.17	JI
Toxaphene ug/g	< .05	

Colbert County **Lat/Lon: 34.73944 / -87.73083**

PICL-2, Spring Ck - Spring Creek embayment approximately 1 mile upstream of Pickwick Reservoir confluence.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	386	567	409	457	513	395
Length (inches)	15.20	22.32	16.10	17.99	20.20	15.55
Weight (g)	546	1,490	518	734	1,240	496
Weight (oz)	19.26	52.56	18.27	25.89	43.74	17.50
Sex/Age	M/4	F/7	M/6	M/7	M/6	M/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-10-13	10-10-13	10-10-13	10-10-13	10-10-13	10-10-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild	Severe/Heavy	Severe/Heavy	Severe/Heavy	Slight/Mild	Slight/Mild
Comments	internal parasitic infestation	severe internal parasitic infestation	severe internal parasitc infestation	severe internal parasites	mild internal parasites	mild internal parasites

	Composite - 6 Fish
Bottle Code: 10/10/2013 PICL-2 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.074
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.94
Mercury ug/g	.217
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Colbert County **Lat/Lon: 34.73944 / -87.73083**

PICL-2, Spring Ck - Spring Creek embayment approximately 1 mile upstream of Pickwick Reservoir confluence.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	385	412	331	394	350	371
Length (inches)	15.16	16.22	13.03	15.51	13.78	14.61
Weight (g)	884	1,106	544	892	544	678
Weight (oz)	31.18	39.01	19.19	31.46	19.19	23.92
Sex/Age	F/3	M/6	M/3	M/4	M/3	F/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-10-13	10-10-13	10-10-13	10-10-13	10-10-13	10-10-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/10/2013 PICL-2 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.17
Mercury ug/g	.251
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.72263 / -87.28049**

WHEL-9, Spring Ck - Deepest point, main creek channel, Spring Creek embayment, approximately 0.5 mile upstream of Co Rd 400 bridge.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	391	320	372	386	325	379
Length (inches)	15.39	12.60	14.65	15.20	12.80	14.92
Weight (g)	364	288	444	492	252	378
Weight (oz)	12.84	10.16	15.66	17.35	8.89	13.33
Sex/Age	F/6	M/6	F/4	F/6	F	F/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites		Slight/Mild			Slight/Mild	
Comments		Slight internal parasites			Slight internal parasites	

	Composite - 6 Fish
Bottle Code: 10/16/2013 WHEL-9 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.025
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.33
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Lawrence County **Lat/Lon: 34.72263 / -87.28049**

WHEL-9, Spring Ck - Deepest point, main creek channel, Spring Creek embayment, approximately 0.5 mile upstream of Co Rd 400 bridge.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	418	383	421	355	348	333
Length (inches)	16.46	15.08	16.57	13.98	13.70	13.11
Weight (g)	1,322	636	844	634	652	474
Weight (oz)	46.63	22.43	29.77	22.36	23.00	16.72
Sex/Age	F/4	F/3	M/4	M/2	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13	10-16-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 10/16/2013 WHEL-9 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.255
Mercury ug/g	.218
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.99401 / -85.69833**

TENR-417, Tennessee R - At AL/TN stateline just upstream of Long Island at RM 417.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	409	472	470	494	419	480
Length (inches)	16.10	18.58	18.50	19.45	16.50	18.90
Weight (g)	570	832	772	924	602	846
Weight (oz)	20.11	29.35	27.23	32.59	21.23	29.84
Sex/Age	M/5	M/5	M/6	M/6	M/5	F/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild		Moderate	Moderate	Slight/Mild	Slight/Mild
Comments	slight internal parasites		Moderate internal parasites	Moderate internal parasites	Slight internal parasites	Slight internal parasites
Mercury ug/g	< .019	< .019	< .019	< .019	< .019	< .019

	Composite - 6 Fish
Bottle Code: 10/7/2013 TENR-417 CHC 01-06	
2,4-DDD ug/g	.013
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.755
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.99401 / -85.69833**

TENR-417, Tennessee R - At AL/TN stateline just upstream of Long Island at RM 417.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	341	368	385	406	427	475
Length (inches)	13.43	14.49	15.16	15.98	16.81	18.70
Weight (g)	532	728	926	1,016	1,332	1,596
Weight (oz)	18.77	25.68	32.66	35.84	46.98	56.30
Sex/Age	M/3	F/3	F/4	M/5	F/4	F/4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13	10-07-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites			Slight/Mild	Slight/Mild		
Comments			Slight internal parasites	Slight internal parasites		
Mercury ug/g	< .019	< .019	< .019	.086	.104	.101

	Composite - 6 Fish
Bottle Code: 10/7/2013 TENR-417 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.115
Mirex ug/g	< .01
Selenium ug/g	.32 JI
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.44419 / -86.13508**

GUNM-7B, Town Ck - Town Creek embayment approximately 4 miles upstream of AL Hwy 227.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	479	411	487	461	445	427
Length (inches)	18.86	16.18	19.17	18.15	17.52	16.81
Weight (g)	918	676	1,010	774	980	656
Weight (oz)	32.38	23.85	35.63	27.30	34.57	23.14
Sex/Age	F/7	F/6	M/7	M/6	F/5	F/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-22-13	10-22-13	10-22-13	10-22-13	10-22-13	10-22-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.139	< .019	.099	.105	< .019	< .019

	Composite - 6 Fish
Bottle Code: 10/22/2013 GUNM-7B CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	2.025
Mirex ug/g	< .01
Selenium ug/g	< .1433 JQ1
Toxaphene ug/g	< .05

Marshall County **Lat/Lon: 34.44419 / -86.13508**

GUNM-7B, Town Ck - Town Creek embayment approximately 4 miles upstream of AL Hwy 227.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	364	342	426	346	406	332
Length (inches)	14.33	13.46	16.77	13.62	15.98	13.07
Weight (g)	732	582	1,010	524	1,012	494
Weight (oz)	25.82	20.53	35.63	18.48	35.70	17.43
Sex/Age	M/3	F/3	F/6	M/3	F/4	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-22-13	10-22-13	10-22-13	10-22-13	10-22-13	10-22-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.385	.414	.354	.281	.147	.167

	Composite - 6 Fish	
Bottle Code: 10/22/2013 GUNM-7B LMB 01-06		
2,4-DDD ug/g	< .01	
2,4-DDE ug/g	< .01	
2,4-DDT ug/g	< .01	
4,4-DDD ug/g	< .01	
4,4-DDE ug/g	< .01	
4,4-DDT ug/g	< .01	
Arochlor 1016 ug/g	< .05	
Arochlor 1221 ug/g	< .05	
Arochlor 1232 ug/g	< .05	
Arochlor 1242 ug/g	< .05	
Arochlor 1248 ug/g	< .05	
Arochlor 1254 ug/g	< .05	
Arochlor 1260 ug/g	< .05	
Total PCB's ug/g	< .05	
Arsenic ug/g	< .1426	
CADMIUM, TOTAL ug/g	< .0076	
Chlordane ug/g	< .01	
Dursban(chlorpyrifos) ug/g	< .01	
Dieldrin ug/g	< .01	
Endosulfan I ug/g	< .01	
Endosulfan II ug/g	< .01	
Endrin ug/g	< .01	
Heptachlor ug/g	< .01	
Heptachlor-epoxide ug/g	< .01	
Hexachlorobenzene ug/g	< .05	
Lindane (gamma BHC) ug/g	< .01	
Lipid %	.19	
Mirex ug/g	< .01	
Selenium ug/g	.19	JQ1I
Toxaphene ug/g	< .05	

Marion County **Lat/Lon: 34.27331 / -87.69217**

UBAM-1, U Bear Ck Res - Upper Bear Creek Reservoir dam forebay area. Upper Bear Creek mile 115.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	523	515	461	543	545	535
Length (inches)	20.59	20.28	18.15	21.38	21.46	21.06
Weight (g)	1,543	1,253	1,010	1,635	1,969	1,525
Weight (oz)	54.43	44.20	35.63	57.67	69.45	53.79
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.201	.088	< .022	.534	< .022	< .022

	Composite - 6 Fish
Bottle Code: 10/17/2013 UBAM-1 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	.23 JI
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	4.67
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Marion County **Lat/Lon: 34.27331 / -87.69217**

UBAM-1, U Bear Ck Res - Upper Bear Creek Reservoir dam forebay area. Upper Bear Creek mile 115.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	416	418	435	430	388	415
Length (inches)	16.38	16.46	17.13	16.93	15.28	16.34
Weight (g)	1,159	951	1,263	1,088	798	988
Weight (oz)	40.88	33.55	44.55	38.38	28.15	34.85
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13	10-17-13
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.231	.764	.39	.311	.611	.329

	Composite - 6 Fish
Bottle Code: 10/17/2013 UBAM-1 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .2098
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.14
Mirex ug/g	< .01
Selenium ug/g	< .2645
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.81186 / -87.34644**

TENR-277, Wheeler Res - Upstream of the dam at Tennessee River mile 277.0, near the confluence of First Creek with the main channel.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	377	360	363	410	416	370
Length (inches)	14.84	14.17	14.29	16.14	16.38	14.57
Weight (g)	524	348	362	686	572	394
Weight (oz)	18.48	12.28	12.77	24.20	20.18	13.90
Sex/Age	F/6	M/4	M	M/4	M/5	M/6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/30/2013 TENR-277 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.5
Mercury ug/g	< .022
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.81186 / -87.34644**

TENR-277, Wheeler Res - Upstream of the dam at Tennessee River mile 277.0, near the confluence of First Creek with the main channel.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	423	387	342	435	358	361
Length (inches)	16.65	15.24	13.46	17.13	14.09	14.21
Weight (g)	1,184	916	528	1,196	602	662
Weight (oz)	41.76	32.31	18.62	42.19	21.23	23.35
Sex/Age	F/3	M/3	M/2	M/3	F/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13	09-30-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/30/2013 TENR-277 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.515
Mercury ug/g	.181
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Limestone County **Lat/Lon: 34.68500 / -87.09861**

TENR-296, Wheeler Res - Mid station, main river channel, Tennessee River mile 296.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	460	530	479	490	371	389
Length (inches)	18.11	20.87	18.86	19.29	14.61	15.31
Weight (g)	748	1,311	950	1,034	404	514
Weight (oz)	26.38	46.24	33.51	36.47	14.25	18.13
Sex/Age	M/6	F/7	F/7	M/6	F/5	M/6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	.115	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	.154	< .01	< .01
4,4-DDE ug/g	.519	.623	.587	.937	.297	.343
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	1.04	1.745	.65	2.585	.63	2.205
Mercury ug/g	< .019	< .019	< .019	< .019	< .019	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	.15 JI	< .1433	.19 JI	.19 JI	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Limestone County **Lat/Lon: 34.68500 / -87.09861**

TENR-296, Wheeler Res - Mid station, main river channel, Tennessee River mile 296.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	388	348	398	346	444	427
Length (inches)	15.28	13.70	15.67	13.62	17.48	16.81
Weight (g)	938	604	836	658	1,074	1,430
Weight (oz)	33.09	21.31	29.49	23.21	37.88	50.44
Sex/Age	F/2	F/2	M/3	M/2	F/6	F/3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13	10-01-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	< .01	.143	< .01	< .01	.108	.247
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.17	.155	.345	.155	.25	1.055
Mercury ug/g	< .019	.154	.116	.091	.198	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	.19 JI	.22 JI	< .1433	< .1433	.21 JI	.18 JI
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Madison County **Lat/Lon: 34.56844 / -86.74064**

TENR-320, Wheeler Res - Vicinity of Tennessee River mile 320. 0.9 miles upstream of Cotaco Creek and 1.0 mile downstream of Indian Creek.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	484	421	430	458	530	522
Length (inches)	19.06	16.57	16.93	18.03	20.87	20.55
Weight (g)	1,141	748	786	873	1,155	1,486
Weight (oz)	40.25	26.38	27.73	30.79	40.74	52.42
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	.043	.012	.015	.012	< .01	.011
2,4-DDE ug/g	.084	.024	.029	.023	< .01	.02
2,4-DDT ug/g	.06	.018	.026	.02	.032	.029
4,4-DDD ug/g	.291	.071	.078	.078	.022	.068
4,4-DDE ug/g	.544	.199	.227	.218	.204	.293
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	.109	.104	.286	< .05
Total PCB's ug/g	< .05	< .05	.109	.104	.286	< .05
Arsenic ug/g	< .2098	.21 JI	< .2098	< .2098	< .2098	< .2098
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	3.585	1.52	3.165	2.24	.475	2.085
Mercury ug/g	< .022	< .022	< .022	< .022	.208	< .022
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .2645	< .2645	< .2645	< .2645	< .2645	< .2645
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Madison County **Lat/Lon: 34.56844 / -86.74064**

TENR-320, Wheeler Res - Vicinity of Tennessee River mile 320. 0.9 miles upstream of Cotaco Creek and 1.0 mile downstream of Indian Creek.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	336	385	379	394	355	445
Length (inches)	13.23	15.16	14.92	15.51	13.98	17.52
Weight (g)	646	638	754	850	708	1,243
Weight (oz)	22.79	22.50	26.60	29.98	24.97	43.85
Sex/Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Collection Date	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13	08-29-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	.029	< .01	.026	.028	< .01	< .01
4,4-DDE ug/g	.077	.073	.06	.086	< .01	.026
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	.078	.088	.061	.081	< .05	.057
Total PCB's ug/g	.078	.088	.061	.081	< .05	.057
Arsenic ug/g	< .2098	.21 JI	< .2098	< .2098	< .2098	.21 JI
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	.595	.11	.4	.535	.3	.23
Mercury ug/g	< .022	.198	.088	.119	.177	.197
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .2645	< .2645	< .2645	< .2645	< .2645	.32 JI
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Marshall County **Lat/Lon: 34.43989 / -86.42136**

TENR-347, Wheeler Res - Wheeler Reservoir, Tennessee River mile 347, 2.0 miles downstream of Guntersville dam.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	530	401	350	376	454	439
Length (inches)	20.87	15.79	13.78	14.80	17.87	17.28
Weight (g)	1,486	642	294	486	666	722
Weight (oz)	52.42	22.65	10.37	17.14	23.49	25.47
Sex/Age	F/6	F/5	M/4	M/4	M/7	M/5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13
Skin on Fillet	N	N	N	N	N	N
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	.01	< .01	< .01	.014	< .01	.063
4,4-DDE ug/g	.106	.017	.013	.041	< .01	.172
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	.255	< .05	< .05	.075	< .05	< .05
Total PCB's ug/g	.255	< .05	< .05	.075	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	5.63	5.125	.475	.965	.925	1.94
Mercury ug/g	.147	< .019	< .019	< .019	.134	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	.15 JI	.15 JI	.16 JI	< .1433	< .1433	< .1433
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Marshall County **Lat/Lon: 34.43989 / -86.42136**

TENR-347, Wheeler Res - Wheeler Reservoir, Tennessee River mile 347, 2.0 miles downstream of Guntersville dam.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	399	437	364	441	353	332
Length (inches)	15.71	17.20	14.33	17.36	13.90	13.07
Weight (g)	1,040	1,266	626	1,353	668	558
Weight (oz)	36.68	44.66	22.08	47.73	23.56	19.68
Sex/Age	F/2	F/5	M/2	F/4	M/2	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13	10-02-13
Skin on Fillet	N	N	N	N	N	N
Internal Parasites				Slight/Mild		
Comments				Slight internal parasites		
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	< .01
4,4-DDE ug/g	.201	< .01	< .01	.286	.103	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	.808	< .05	< .05
Total PCB's ug/g	< .05	< .05	< .05	.808	< .05	< .05
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Lipid %	1.355	.12	.475	1.475	.53	.355
Mercury ug/g	< .019	.096	< .019	< .019	< .019	< .019
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g	< .1433	.23 JI	.22 JI	.17 JI	.26 JI	.19 JI
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05

Jackson County **Lat/Lon: 34.89931 / -85.74520**

WDWJ-4, Widows Ck - Stretch of Widows Creek from 1.5 miles upstream of Tennessee River confluence to first bridge crossing (Million Dollar Bridge). Begin collection at the bridge crossing and commence downstream.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	330	376	400	430	335	340
Length (inches)	12.99	14.80	15.75	16.93	13.19	13.39
Weight (g)	618	904	994	1,332	634	652
Weight (oz)	21.80	31.89	35.06	46.98	22.36	23.00
Sex/Age	M/5	M/8	M/6	M/5	M/5	M/5
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	10-15-13	10-15-13	10-15-13	10-15-13	10-15-13	10-15-13
Skin on Fillet	N	N	N	N	N	N
Arsenic ug/g	< .1426	< .1426	< .1426	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076	< .0076	< .0076	< .0076
Mercury ug/g	.137	.409	.224	.248	.178	.262
Selenium ug/g	.21 JI	.21 JI	.19 JI	.29 JI	.29 JI	.22 JI

	Composite - 6 Fish
Bottle Code: 10/15/2013 WDWJ-4 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.26
Mirex ug/g	< .01
Selenium ug/g	.17 JI
Toxaphene ug/g	< .05

Jackson County **Lat/Lon: 34.89931 / -85.74520**

WDWJ-4, Widows Ck - Stretch of Widows Creek from 1.5 miles upstream of Tennessee River confluence to first bridge crossing (Million Dollar Bridge). Begin collection at the bridge crossing and commence downstream.

Yellow Bullhead (Ameiurus natalis)

	Fish 1	Fish 2	Fish 3
Length (mm)	305	237	290
Length (inches)	12.01	9.33	11.42
Weight (g)	440	188	394
Weight (oz)	15.52	6.63	13.90
Sex/Age	F/6	M/3	F/5
Age Method	Spine	Spine	Spine
Collection Date	10-15-13	10-15-13	10-15-13
Skin on Fillet	N	N	N
Internal Parasites	Slight/Mild	Slight/Mild	Slight/Mild
Comments	slight internal parasites in the body cavity and intestine	internal parasites in the intestine and body cavity	slight parasitic infestation in the body cavity
Arsenic ug/g	< .1426	< .1426	< .1426
CADMIUM, TOTAL ug/g	< .0076	< .0076	< .0076
Mercury ug/g	.183	< .022	.225
Selenium ug/g	.18 JI	.32 JI	.23 JI

	Composite - 3 Fish
Bottle Code: 10/15/2013 WDWJ-4 YBU 01-03	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.305
Mirex ug/g	< .01
Selenium ug/g	.2 JI
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.80447 / -87.62422**

TENR-260, Wilson Res - Dam forebay at Tennesse River mile 259.5.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	418	380	399	402	396	355
Length (inches)	16.46	14.96	15.71	15.83	15.59	13.98
Weight (g)	696	502	578	544	630	327
Weight (oz)	24.55	17.71	20.39	19.19	22.22	11.53
Sex/Age	F/6	F/6	M/6	F/6	F/5	M/4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/25/2013 TENR-260 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.434
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	1.98
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.80447 / -87.62422**

TENR-260, Wilson Res - Dam forebay at Tennesse River mile 259.5.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	354	382	392	424	397	365
Length (inches)	13.94	15.04	15.43	16.69	15.63	14.37
Weight (g)	684	664	900	1,018	836	706
Weight (oz)	24.13	23.42	31.75	35.91	29.49	24.90
Sex/Age	M/2	F/3	M/4	F/3	M/3	F/2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N

	Composite - 6 Fish
Bottle Code: 9/25/2013 TENR-260 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.2
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.009 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.41
Mercury ug/g	.144
Mirex ug/g	< .01
Selenium ug/g	.19 JI
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.80858 / -87.43186**

TENR-273, Wilson Res - Tennessee River miles 272.0-274.0, 1.0 mile downstream of Blue Water Creek.

Channel Catfish (Ictalurus punctatus)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	410	440	519	450	433	434
Length (inches)	16.14	17.32	20.43	17.72	17.05	17.09
Weight (g)	574	816	1,422	880	684	728
Weight (oz)	20.25	28.78	50.16	31.04	24.13	25.68
Sex/Age	M/5	M/8	M/5	F/7	M/5	M/7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	.594	.688	.502	.541	.624
Total PCB's ug/g	< .05	.594	.688	.502	.541	.624
Lipid %	1.29	4.035	1.96	2.185	1.905	3.935

	Composite - 6 Fish
Bottle Code: 9/25/2013 TENR-273 CHC 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	.359
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	< .0076
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	3.105
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

Lauderdale County **Lat/Lon: 34.80858 / -87.43186**

TENR-273, Wilson Res - Tennessee River miles 272.0-274.0, 1.0 mile downstream of Blue Water Creek.

Largemouth Bass (Micropterus salmoides)

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	359	325	342	379	329	447
Length (inches)	14.13	12.80	13.46	14.92	12.95	17.60
Weight (g)	588	514	600	742	518	1,538
Weight (oz)	20.74	18.13	21.16	26.17	18.27	54.25
Sex/Age	F/2	M/2	M/2	F/2	F/2	F/5
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Collection Date	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13	09-25-13
Skin on Fillet	N	N	N	N	N	N
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	.542
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	.542
Lipid %	.385	.22	.525	.585	.38	.625

	Composite - 6 Fish
Bottle Code: 9/25/2013 TENR-273 LMB 01-06	
2,4-DDD ug/g	< .01
2,4-DDE ug/g	< .01
2,4-DDT ug/g	< .01
4,4-DDD ug/g	< .01
4,4-DDE ug/g	< .01
4,4-DDT ug/g	< .01
Arochlor 1016 ug/g	< .05
Arochlor 1221 ug/g	< .05
Arochlor 1232 ug/g	< .05
Arochlor 1242 ug/g	< .05
Arochlor 1248 ug/g	< .05
Arochlor 1254 ug/g	< .05
Arochlor 1260 ug/g	< .05
Total PCB's ug/g	< .05
Arsenic ug/g	< .1426
CADMIUM, TOTAL ug/g	.014 JI
Chlordane ug/g	< .01
Dursban(chlorpyrifos) ug/g	< .01
Dieldrin ug/g	< .01
Endosulfan I ug/g	< .01
Endosulfan II ug/g	< .01
Endrin ug/g	< .01
Heptachlor ug/g	< .01
Heptachlor-epoxide ug/g	< .01
Hexachlorobenzene ug/g	< .05
Lindane (gamma BHC) ug/g	< .01
Lipid %	.535
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

*ADEM Qualifiers **

JI - Estimated/Between MDL & PQL

JQ1 - Estimated/QC1

JQ1I - Estimated/QC1/Between mdl & rl

**** See SOP #4910 for more details.***