

ADEM Fish Tissue Monitoring Program 2012 Annual Report

Black Warrior and Cahaba River Basins

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Alabama Department of Environmental Management

Field Operations Division

Environmental Indicators Section

Aquatic Assessment Unit

TABLE OF CONTENTS

LIST OF FIGURES	3
LIST OF TABLES	4
INTRODUCTION.....	5
METHODS	8
RESULTS	10

LIST OF FIGURES

Figure 1. CY 2012 FTMP sample locations and locations with ADPH consumption advisories issued or updated based on 2012 results..... 11

LIST OF TABLES

Table 1. Analytical parameters for the ADEM Fish Tissue Monitoring Program.....	9
Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.	12
Table 3. CY 2012 Fish Tissue Monitoring Program analytical results.	18

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 355 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		Total DDT 5.0 ug/g	
4,4-DDE	SW8081A	0.01 ug/g			
4,4-DDT	SW8081A	0.01 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 2012, 501 fish (11 different species) from 50 locations (Figure 1 and Table 2) were collected for the FTMP. Thirty four different waterbodies were sampled. Thirty one locations with current ADPH consumption advisories for mercury were sampled and three locations downstream of paper mills were sampled for dioxin analysis. Analytical results for the 2012 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 92 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 basin for 2013 is the Tennessee River basin. Sample location selection is ongoing and sampling will begin in September/October 2013.

The ADPH provides information on all 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 2012 FTMP sample locations and locations with ADPH consumption advisories issued or updated based on 2012 results.

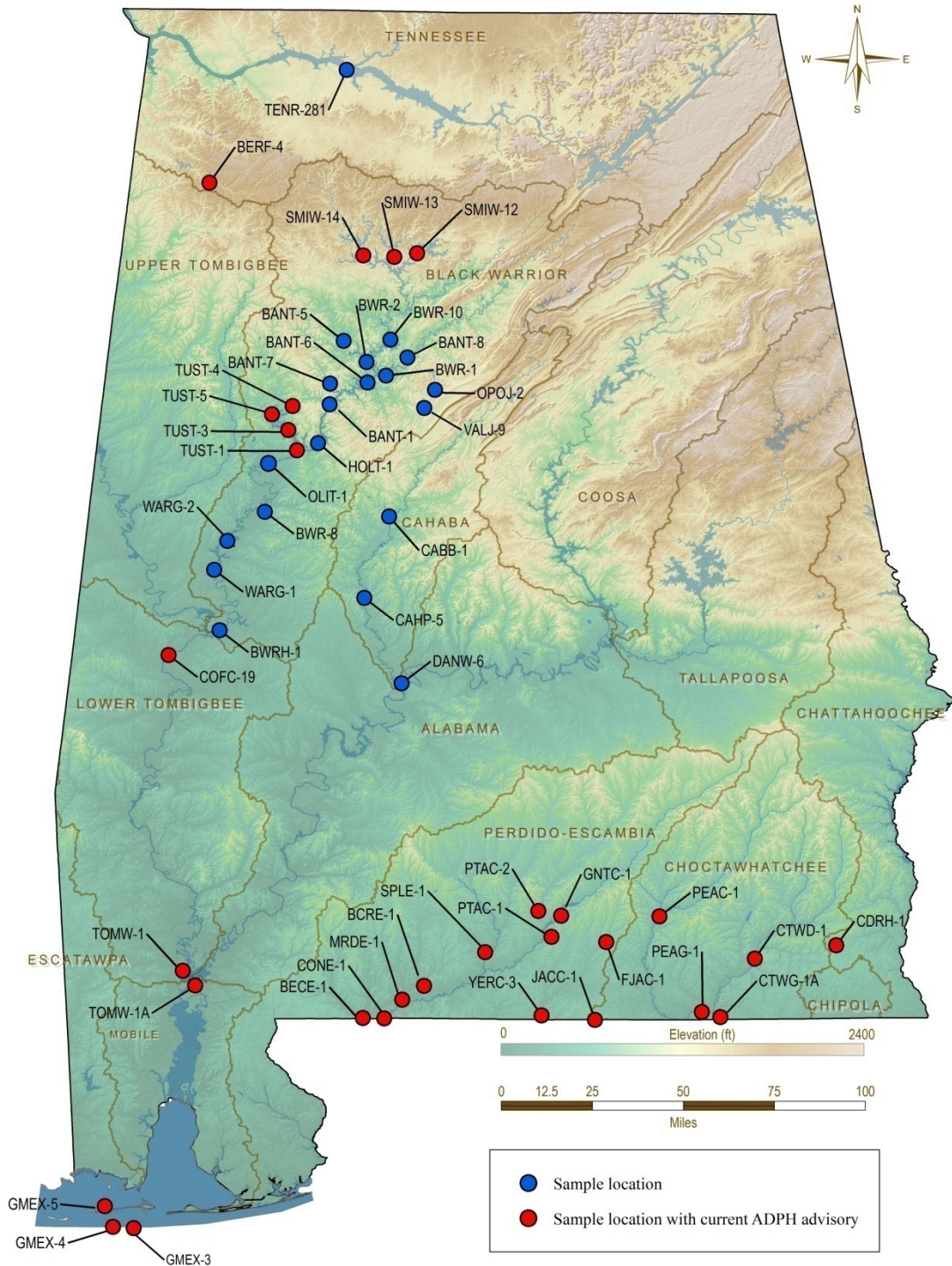


Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Black Warrior R	Black Warrior R	BWRH-1	Greene	Largemouth bass Blue catfish	Deepest point, main river channel, approximately 1 mile upstream of Hwy 43 bridge near Demopolis.	No
Black Warrior R	Warrior Res	WARG-1	Greene	Channel catfish Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay. WAR1: Warrior Res, dam forebay approximately river mile 263.	No
Black Warrior R	Warrior Res	WARG-2	Greene	Blue catfish Largemouth bass Channel catfish	Mid reservoir. Deepest point, main river channel, immediately downstream of Lock 8 Public Use Area.	No
Black Warrior R	Warrior Res	BWR-8	Tuscaloosa	Channel catfish Largemouth bass	Black Warrior River at Moundville, approximately river mile 302.7.	No
Black Warrior R	Oliver Res	OLIT-1	Tuscaloosa	Channel catfish Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay.	No
Black Warrior R	Holt Res	HOLT-1	Tuscaloosa	Blue catfish Largemouth bass	Lower reservoir. Forebay area, downstream of Deerlick Creek public access area.	No
Black Warrior R	Tuscaloosa Res	TUST-1	Tuscaloosa	Channel catfish Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay . TUS1:Lake Tuscaloosa dam forebay vicinity.	Yes
Black Warrior R	Tuscaloosa Res	TUST-3	Tuscaloosa	Channel catfish Largemouth bass	Mid reservoir. Deepest point, main river channel, approximately 1.0 mile downstream of Alabama Hwy. 69 bridge.	Yes
Black Warrior R	Binion Ck	TUST-5	Tuscaloosa	Channel catfish Largemouth bass	Binion Creek, deepest point, main channel, immediately upstream of Hwy 43.	Yes

Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Black Warrior R	Tuscaloosa Res	TUST-4	Tuscaloosa	Largemouth bass Channel catfish	North River immediately upstream of Bull Slough Road crossing, deepest point, main channel.	Yes
Black Warrior R	Valley Ck	VALJ-9	Jefferson	Largemouth bass Spotted bass	Downstream of Opossum Ck confluence.	No
Black Warrior R	Opossum Ck	OPOJ-2	Jefferson	Largemouth bass	Opossum Ck at Woodward Road. OPOJ2: Upstream of Koppers Bridge.	No
Black Warrior R	Bankhead Res	BANT-1	Tuscaloosa	Channel catfish Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay.	No
Black Warrior R	Big Yellow Ck	BANT-7	Tuscaloosa	Blue catfish Largemouth bass	Big Yellow Creek embayment, approximately 1 mile upstream of confluence with Warrior River.	No
Black Warrior R	Valley Ck	BANT-6	Jefferson	Channel catfish Largemouth bass	Deepest point, main creek channel, Valley Creek embayment. Approximately 1.0 mile upstream of confluence with Warrior River.	No
Black Warrior R	Locust Fk	BWR-1	Jefferson	Channel catfish Largemouth bass	Locust Fork at river mile 388.5 near Vines Fish Camp.	No
Black Warrior R	Mulberry Fk	BWR-2	Walker	Channel catfish Largemouth bass	Mulberry Fork at river mile 391.8 downstream of Lost Creek.	No
Black Warrior R	Village Ck	BANT-8	Jefferson	Largemouth bass Blacktail redhorse	Village Creek embayment approximately 0.5 mile upstream of confluence with Warrior River.	No
Black Warrior R	Lost Ck	BANT-5	Walker	Channel catfish Largemouth bass	Deepest point, main creek channel, Lost Creek embayment. Approximately 0.5 mile downstream of Walker Co. Rd. 53 bridge.	No

Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Black Warrior R	Mulberry Fk	BWR-10	Walker	Channel catfish Largemouth bass	Mulberry Fk, Black Warrior River downstream of Hwy 78.	No
Black Warrior R	Rock Ck	SMIW-13	Winston	Channel catfish Largemouth bass	Rock Creek, Smith Reservoir in vicinity of Little Crooked Creek and Rock Creek Marina. Approximately 5.0 miles upstream from Sipsey Fork.	Yes
Black Warrior R	Smith Res	SMIW-14	Winston	Channel catfish Spotted bass	Smith Reservoir mouth of Clear Creek, mouth of Butler Creek, Sipsey Fork in vicinity of Clear and Butler creeks. 2.3 miles upstream of State Rt. 257 bridge.	Yes
Black Warrior R	Ryan Ck	SMIW-12	Cullman	Channel catfish Largemouth bass	Ryan Creek, Smith Reservoir approximately 2.2 miles upstream of Big Bridge and approximately 12 miles upstream of Sipsey Fork.	Yes
Cahaba R	Cahaba R	DANW-6	Dallas	Channel catfish Largemouth bass Spotted bass	Deepest point, main river channel, Cahaba River embayment, approximately 0.5 miles upstream of lake confluence.	No
Cahaba R	Cahaba R	CAHP-5	Perry	Channel catfish Spotted bass	Cahaba River at AL Hwy 183.	No
Cahaba R	Cahaba R	CABB-1	Bibb	Channel catfish Spotted bass	Cahaba River at US Hwy 82.	No
Chattahoochee R	Cedar Ck	CDRH-1	Houston	Largemouth bass	Cedar Ck north of Dothan at US Hwy 431.	Yes
Choctawhatchee R	Choctawhatchee R	CTWG-1A	Geneva	Spotted bass Redear sunfish Largemouth bass	Choctawhatchee River 1.5 mi above the AL/FL state line approximately 3 miles downstream of Geneva, AL.	Yes

Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Choctawhatchee R	Pea R	PEAG-1	Geneva	Largemouth bass	Deepest point, main river channel, approximately 0.5 miles upstream of the confluence with Choctawhatchee River.	Yes
Choctawhatchee R	Choctawhatchee R	CTWD-1	Dale	Largemouth bass Redear sunfish	Deepest point, main river channel, approximately 0.5 miles downstream of Little Choctawhatchee confluence, near State Hwy 92.	Yes
Choctawhatchee R	Pea R	PEAC-1	Coffee	Largemouth bass	Deepest point, main river channel, approximately 0.5 miles downstream of Beaverdam Creek/Pea River confluence, south of Elba, AL.	Yes
Lower Tombigbee R	Tombigbee R	TOMW-1A	Washington	Blue catfish Largemouth bass Bluegill Black crappie	One mile upstream of the Tombigbee R, Alabama R confluence.	Yes
Lower Tombigbee R	Tombigbee R	TOMW-1	Washington	Largemouth bass Black crappie Bluegill Channel catfish Blue catfish	Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.	Yes
Lower Tombigbee R	Coffeeville Res	COFC-19	Sumter	Spotted bass Blue catfish	Approximately 1.5 miles downstream of US Hwy 80/AL Hwy 28 bridge. Tombigbee R miles 202.0-200.0. Lat/Lon was calculated at RM 202.0.	Yes
Mobile R	Gulf Of Mexico	GMEX-3	Mobile	Grey Triggerfish	Gulf of Mexico	Yes
Mobile R	Gulf Of Mexico	GMEX-4	Mobile	Red Snapper	Gulf of Mexico	Yes
Mobile R	Gulf Of Mexico	GMEX-5	Mobile	Sand seatrout	Gulf of Mexico	Yes

Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Perdido-Escambia R	L Jackson	JACC-1	Covington	Largemouth bass	Approximate center of lake.	Yes
Perdido-Escambia R	Conecuh R	CONE-1	Escambia	Channel catfish Largemouth bass	Deepest point, main river channel, at AL/FL Stateline.	Yes
Perdido-Escambia R	Big Escambia Ck	BECE-1	Escambia	Largemouth bass Spotted bass	Big Escambia Ck at Louisville & Nashville Railroad bridge crossing. Approximately 0.5 mile upstream of AL/FL Stateline.	Yes
Perdido-Escambia R	Yellow R	YERC-3	Covington	Largemouth bass Spotted bass	Deepest point, main river channel, at County Road 4 bridge.	Yes
Perdido-Escambia R	Murder Ck	MRDE-1	Escambia	Largemouth bass Spotted bass	Between confluence with Burnt Corn Creek and Conecuh River.	Yes
Perdido-Escambia R	Burnt Corn Ck	BCRE-1	Escambia	Spotted bass	Burnt Corn Creek in the vicinity of US Hwy 31.	Yes
Perdido-Escambia R	Sepulga R	SPLE-1	Escambia	Largemouth bass Spotted bass	Sepulga River in vicinity of Brooklyn, AL.	Yes
Perdido-Escambia R	Frank Jackson Res	FJAC-1	Covington	Largemouth bass	Deepest point, main creek channel, dam forebay .	Yes
Perdido-Escambia R	Point A Res	PTAC-1	Covington	Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay .	Yes
Perdido-Escambia R	Patsaliga Ck	PTAC-2	Covington	Largemouth bass	Deepest point, main channel, Patsaliga Cr. embayment.	Yes
Perdido-Escambia R	Gantt Res	GNTC-1	Covington	Largemouth bass	Lower reservoir. Deepest point, main river channel, dam forebay .	Yes

Table 2. CY 2012 FTMP sample location information, location description, species collected and ADPH advisory status.

Basin	Locale	Station ID	County	Species Collected	Location Description	Current ADPH Consumption Advisory
Tennessee R	Bear Ck	BERF-4	Franklin	Channel catfish Largemouth bass	Bear Cr at Co Rd. 53.	Yes
Tennessee R	Wheeler Res	TENR-281	Lauderdale	Channel catfish Largemouth bass	Wheeler Reservoir (Tennessee River) at river mile 281. Approximately 2 miles downstream of the mouth of Elk River. Due south of Rogersville.	No



Table 3. CY2012 Fish Tissue Monitoring Program Analytical Results

BANT-1, Bankhead Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-03-12 1000
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	370	460	340	383	340	387
Length (inches)	14.57	18.11	13.39	15.08	13.39	15.24
Weight (g)	426	896	340	394	322	520
Weight (oz)	15.03	31.61	11.99	13.90	11.36	18.34
Sex	M	F	M	M	M	F
Age	8	8	6	7		6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 10/3/2012 BANT-1 CHC 01-06						Composite - 6 Fish
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						< .1792
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 %						< .1
Mercury ug/g						< .019
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

BANT-1, Bankhead Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-03-12 1000
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	335	335	385	345	335	335
Length (inches)	13.19	13.19	15.16	13.58	13.19	13.19
Weight (g)	572	578	828	526	582	558
Weight (oz)	20.18	20.39	29.21	18.55	20.53	19.68
Sex	M	M	M	F	M	F
Age	4	2	3	4	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 10/3/2012 BANT-1 LMB 01-06						Composite - 6 Fish
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						.18 JI
CADMIUM, TOTAL ug/g						.01 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 %						2.08
Mercury ug/g						.137
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

BANT-5, Lost Ck - Deepest point, main creek channel, Lost Creek embayment. Approximately 0.5 mile downstream of Walker Co.

Rd. 53 bridge.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-08-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	355	505	330	375	376	356
Length (inches)	13.98	19.88	12.99	14.76	14.80	14.02
Weight (g)	362	1,148	230	418	430	346
Weight (oz)	12.77	40.49	8.11	14.74	15.17	12.20
Sex	F	M	M	M	F	M
Age	5	10	5	6	7	6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.103	.188	.129	< .019	< .019	< .009

Bottle Code: 10/8/2012 BANT-5 CHC 01-06	Composite - 6 Fish
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	.18 JI
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 %	< .1
Mercury ug/g	< .009
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

BANT-5, Lost Ck - Deepest point, main creek channel, Lost Creek embayment. Approximately 0.5 mile downstream of Walker Co.

Rd. 53 bridge.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-08-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	353	387	342	349	400	328
Length (inches)	13.90	15.24	13.46	13.74	15.75	12.91
Weight (g)	580	860	566	588	914	520
Weight (oz)	20.46	30.34	19.97	20.74	32.24	18.34
Sex	F	F	F	F	F	F
Age	3	4	4	3	5	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.164	.12	.155	.157	.184	< .009
Bottle Code: 10/8/2012 BANT-5 LMB 01-06						Composite - 6 Fish
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						< .1792
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 %						4.34
Mercury ug/g						.161
Mirex ug/g						< .01
Selenium ug/g						.32 JI
Toxaphene ug/g						< .05

BANT-6, Valley Ck - Deepest point, main creek channel, Valley Creek embayment. Approximately 1.0 mile upstream of confluence with Warrior River.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-08-12 1500
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	400	388	401	353	373	415
Length (inches)	15.75	15.28	15.79	13.90	14.69	16.34
Weight (g)	544	534	504	382	380	584
Weight (oz)	19.19	18.84	17.78	13.47	13.40	20.60
Sex	M	M	F	M	M	F
Age	6	6	6	5	6	7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/8/2012 BANT-6 CHC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

BANT-6, Valley Ck - Deepest point, main creek channel, Valley Creek embayment. Approximately 1.0 mile upstream of confluence with Warrior River.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-08-12 1500
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	383	397	350	339	388	343
Length (inches)	15.08	15.63	13.78	13.35	15.28	13.50
Weight (g)	934	1,232	592	588	980	654
Weight (oz)	32.95	43.46	20.88	20.74	34.57	23.07
Sex	F	M	M	M	F	M
Age	4	6	2	2	4	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/8/2012 BANT-6 LMB 01-06	Composite - 6 Fish
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	< .1792
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 %	.1
Mercury ug/g	< .009
Mirex ug/g	< .01
Selenium ug/g	.3 JI
Toxaphene ug/g	< .05

BANT-7, Big Yellow Ck - Big Yellow Creek embayment, approximately 1 mile upstream of confluence with Warrior River.

Return visit to collect blue catfish.

Blue Catfish (Ictalurus furcatus)						Collected: 10-23-12 0700
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	450	490	480	490	470	406
Length (inches)	17.72	19.29	18.90	19.29	18.50	15.98
Weight (g)	826	982	864	1,020	828	536
Weight (oz)	29.14	34.64	30.48	35.98	29.21	18.91
Sex	M	F	M	F	F	M
Age	7	7	6	8	6	7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.087	.147	< .019	< .019	.113	< .019
Bottle Code: 10/23/2012 BANT-7 BLC 01-06						Composite - 6 Fish
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						< .1792
CADMIUM, TOTAL ug/g						.005 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
Mercury ug/g						< .019
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

BANT-7, Big Yellow Ck - Big Yellow Creek embayment, approximately 1 mile upstream of confluence with Warrior River.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-09-12 0800

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	390	412	417	348	422	376
Length (inches)	15.35	16.22	16.42	13.70	16.61	14.80
Weight (g)	810	1,000	1,038	562	948	654
Weight (oz)	28.57	35.27	36.61	19.82	33.44	23.07
Sex	M	F	F	M	M	F
Age	3	5	5	3	3	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.175	.31	.161	.118	.219	.32

Bottle Code: 10/9/2012 BANT-7 LMB 01-06**Composite - 6 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	.012 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
Mercury ug/g	.204
Mirex ug/g	< .01
Selenium ug/g	.33 JI
Toxaphene ug/g	< .05

BANT-8, Village Ck - Village Creek embayment approximately 0.5 mile upstream of confluence with Warrior River.

Blacktail Redhorse (<i>Moxostoma poecilurum</i>)						Collected: 10-22-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	359	288	268	224	215	210
Length (inches)	14.13	11.34	10.55	8.82	8.46	8.27
Weight (g)	502	268	184	100	92	92
Weight (oz)	17.71	9.45	6.49	3.53	3.25	3.25
Sex	F	M	M	M	M	M
Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .019	< .019	< .019	.258	< .019	< .019

Bottle Code: 10/22/2012 BANT-8 BKR 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	.35 JI
Toxaphene ug/g	< .05

BANT-8, Village Ck - Village Creek embayment approximately 0.5 mile upstream of confluence with Warrior River.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-22-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	301	373	322	342	334	288
Length (inches)	11.85	14.69	12.68	13.46	13.15	11.34
Weight (g)	348	750	528	620	598	328
Weight (oz)	12.28	26.46	18.62	21.87	21.09	11.57
Sex	F	M	M	M	M	F
Age	2	5	3	5	4	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.095	.153	.096	.127	.131	< .019

Bottle Code: 10/22/2012 BANT-8 LMB 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.007 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 %	3.09
Mercury ug/g	.098
Mirex ug/g	< .01
Selenium ug/g	.43 JI
Toxaphene ug/g	< .05

Escambia County

Lat/Lon: 31.10090 / -87.07630

BCRE-1, Burnt Corn Ck - Burnt Corn Creek in the vicinity of US Hwy 31.

Spotted Bass (*Micropterus punctulatus*)

Collected: 10-29-12 1200

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	246	351	285	259	344	241
Length (inches)	9.69	13.82	11.22	10.20	13.54	9.49
Weight (g)	182	344	280	304	546	160
Weight (oz)	6.42	12.13	9.88	10.72	19.26	5.64
Sex	F	F	M	F	F	F
Age	2	4	4	2	4	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.512	.563	.84	.402	.667	.528

Escambia County

Lat/Lon: 31.00044 / -87.24800

BECE-1, Big Escambia Ck - Big Escambia Ck at Louisville & Nashville Railroad bridge crossing. Approximately 0.5 mile upstream of AL/FL Stateline.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-29-12 1000

	Fish 1	Fish 2	Fish 3
Length (mm)	408	336	375
Length (inches)	16.06	13.23	14.76
Weight (g)	964	458	714
Weight (oz)	34.00	16.16	25.19
Sex	F	F	F
Age	8	3	7
Age Method	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N
Internal Parasites	Slight/Mild		
Mercury ug/g	.715	.673	.73

Spotted Bass (*Micropterus punctulatus*)

Collected: 10-29-12 1000

	Fish 1	Fish 2	Fish 3
Length (mm)	320	327	346
Length (inches)	12.60	12.87	13.62
Weight (g)	398	460	648
Weight (oz)	14.04	16.23	22.86
Sex	F	F	F
Age	5	4	6
Age Method	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N
Mercury ug/g	.841	.855	.566

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

Sampled by TVA.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 07-18-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	480	558	471	528	466	507
Length (inches)	18.90	21.97	18.54	20.79	18.35	19.96
Weight (g)	1,088	1,673	909	1,083	946	1,220
Weight (oz)	38.38	59.01	32.06	38.20	33.37	43.03
Sex	F	F	F	F	F	F
Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.34	.953	.416	.584	.414	.512

Bottle Code: 7/18/2012 BERF-4 CHC 01-06	Composite - 6 Fish
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	.121 JI
CADMIUM, TOTAL ug/g	.006 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 %	1.01
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

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

Sampled by TVA.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 07-18-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	366	310	317	348	272	269
Length (inches)	14.41	12.20	12.48	13.70	10.71	10.59
Weight (g)	660	370	490	533	266	259
Weight (oz)	23.28	13.05	17.28	18.80	9.38	9.14
Sex	M	F	F	F	M	F
Age						
Age Method	N/A	N/A	N/A	N/A	N/A	N/A
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.353	.33	.377	.327	.245	.243

Bottle Code: 7/18/2012 BERF-4 LMB 01-06	Composite - 6 Fish
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	< .0795
CADMIUM, TOTAL ug/g	.007 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 %	.61
Mirex ug/g	< .01
Selenium ug/g	< .1433
Toxaphene ug/g	< .05

BWR-10, Mulberry Fk - Mulberry Fk, Black Warrior River downstream of Hwy 78.

<u>Channel Catfish (<i>Ictalurus punctatus</i>)</u>		Collected: 10-11-12 0800					
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	461	391	431	382	410	397	
Length (inches)	18.15	15.39	16.97	15.04	16.14	15.63	
Weight (g)	904	424	616	420	502	434	
Weight (oz)	31.89	14.96	21.73	14.82	17.71	15.31	
Sex	M	M	M	M	F	F	
Age	8	6	6	5	6	6	
Age Method	Spine	Spine	Spine	Spine	Spine	Spine	
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	.012	
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	< .1792	< .1792	< .1792	< .1792	< .1792	< .1792	
CADMIUM, TOTAL ug/g	.011 JI	.011 JI	.011 JI	.011 JI	.011 JI	.01 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 %	< .1	< .1	< .1	< .1	< .1	.24	
Mercury ug/g	< .009	.092	< .009	.135	.089	< .009	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	
Selenium ug/g	< .2501	< .2501	< .2501	< .2501	< .2501	< .2501	
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05	

BWR-10, Mulberry Fk - Mulberry Fk, Black Warrior River downstream of Hwy 78.

Largemouth Bass (<i>Micropterus salmoides</i>)							Collected: 10-11-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	361	352	460	371	349	374	
Length (inches)	14.21	13.86	18.11	14.61	13.74	14.72	
Weight (g)	542	602	1,500	604	608	686	
Weight (oz)	19.12	21.23	52.91	21.31	21.45	24.20	
Sex	F	F	F	M	F	F	
Age	4	4	4	5	2	4	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	N	
Internal Parasites							Slight/Mild
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	< .05	< .05	< .05	< .05	< .05	< .05	
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	< .05	
Arsenic ug/g	< .1792	< .1792	< .1792	< .1792	< .1792	.17 JI	
CADMIUM, TOTAL ug/g	.012 JI	.011 JI	.011 JI	.012 JI	.01 JI	.011 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 %	< .1	< .1	< .1	.21	< .1	< .1	
Mercury ug/g	.171	.225	.171	.344	.182	.202	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	
Selenium ug/g	.26 JI	< .2501	.29 JI	< .2501	< .2501	< .2501	
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	< .05	

BWR-1, Locust Fk - Locust Fork at river mile 388.5 near Vines Fish Camp.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-08-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	443	452	471	483	509	358
Length (inches)	17.44	17.80	18.54	19.02	20.04	14.09
Weight (g)	686	766	1,002	1,078	1,258	328
Weight (oz)	24.20	27.02	35.34	38.03	44.37	11.57
Sex	M	M	M	F	M	M
Age	6	6	8	6	8	5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Internal Parasites		Slight/Mild	Slight/Mild	Slight/Mild	Slight/Mild	
Bottle Code: 10/8/2012 BWR-1 CHC 01-06						Composite - 6 Fish
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						.0118
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						< .1792
CADMIUM, TOTAL ug/g						.012 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
Mercury ug/g						< .009
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

BWR-1, Locust Fk - Locust Fork at river mile 388.5 near Vines Fish Camp.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-08-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	422	373	391	352	353	335
Length (inches)	16.61	14.69	15.39	13.86	13.90	13.19
Weight (g)	1,244	704	926	778	624	578
Weight (oz)	43.88	24.83	32.66	27.44	22.01	20.39
Sex	M	F	F	M	M	M
Age	5	4	4	3	3	5
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild					
Bottle Code: 10/8/2012 BWR-1 LMB 01-06						Composite - 6 Fish
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						< .1792
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 %						< .1
Mercury ug/g						.179
Mirex ug/g						< .01
Selenium ug/g						.49
Toxaphene ug/g						< .05

BWR-2, Mulberry Fk - Mulberry Fork at river mile 391.8 downstream of Lost Creek.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-09-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	455	405	399	375	340	342
Length (inches)	17.91	15.94	15.71	14.76	13.39	13.46
Weight (g)	872	528	508	382	308	282
Weight (oz)	30.76	18.62	17.92	13.47	10.86	9.95
Sex	M	F	M	M	F	M
Age	7	5	5	7	3	4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.209	.143	.115	< .009	< .009	< .009

Bottle Code: 10/9/2012 BWR-2 CHC 01-06	Composite - 6 Fish
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	< .1792
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 %	3.45
Mercury ug/g	.143
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

BWR-2, Mulberry Fk - Mulberry Fork at river mile 391.8 downstream of Lost Creek.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-09-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	385	416	420	355	445	372
Length (inches)	15.16	16.38	16.54	13.98	17.52	14.65
Weight (g)	744	1,306	1,178	722	1,304	716
Weight (oz)	26.24	46.07	41.55	25.47	46.00	25.26
Sex	F	F	F	M	M	M
Age	5	5	3	2	5	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.342	.176	.194	.145	.162	.144

Bottle Code: 10/9/2012 BWR-2 LMB 01-06	Composite - 6 Fish
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	.2 JI
CADMIUM, TOTAL ug/g	.01 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 %	2.61
Mercury ug/g	.221
Mirex ug/g	< .01
Selenium ug/g	.28 JI
Toxaphene ug/g	< .05

BWR-8, Warrior Res - Black Warrior River at Moundville, approximately river mile 302.7.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-04-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	485	560	530	525	520	460
Length (inches)	19.09	22.05	20.87	20.67	20.47	18.11
Weight (g)	1,024	1,634	1,200	1,374	1,370	838
Weight (oz)	36.12	57.64	42.33	48.47	48.33	29.56
Sex	M	F	F	M	M	F
Age	6	9	7	8	7	6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/4/2012 BWR-8 CHC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.01 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 %	8.48
Mercury ug/g	.107
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

BWR-8, Warrior Res - Black Warrior River at Moundville, approximately river mile 302.7.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-04-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	350	340	340	360	355	360
Length (inches)	13.78	13.39	13.39	14.17	13.98	14.17
Weight (g)	600	510	584	654	604	564
Weight (oz)	21.16	17.99	20.60	23.07	21.31	19.89
Sex	F	F	M	F	F	F
Age	2	2	2	2	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 10/4/2012 BWR-8 LMB 01-06						Composite - 6 Fish
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						< .1792
CADMIUM, TOTAL ug/g						.012 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 %						3.72
Mercury ug/g						.117
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

BWRH-1, Black Warrior R - Deepest point, main river channel, approximately 1 mile upstream of Hwy 43 bridge near Demopolis.

Blue Catfish (*Ictalurus furcatus*)

Collected: 09-25-12 1100

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	490	535	492	423	465	555
Length (inches)	19.29	21.06	19.37	16.65	18.31	21.85
Weight (g)	1,036	1,374	1,114	680	936	1,488
Weight (oz)	36.54	48.47	39.30	23.99	33.02	52.49
Sex	F	M	F	F	F	F
Age	8	9	8	8	7	8
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 9/25/2012 BWRH-1 BLC 01-06**Composite - 6 Fish**

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	.19 JI
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 %	2.08
Mercury ug/g	.1
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

BWRH-1, Black Warrior R - Deepest point, main river channel, approximately 1 mile upstream of Hwy 43 bridge near Demopolis.

Largemouth Bass (*Micropterus salmoides*)

Collected: 09-25-12 1100

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	395	352	339	330	377	356
Length (inches)	15.55	13.86	13.35	12.99	14.84	14.02
Weight (g)	904	614	520	546	840	648
Weight (oz)	31.89	21.66	18.34	19.26	29.63	22.86
Sex	F	F	F	F	F	F
Age	4	2	4	3	3	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 9/25/2012 BWRH-1 LMB 01-06**Composite - 6 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	.012 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 %	1.01
Mercury ug/g	.191
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CABB-1, Cahaba R - Cahaba River at US Hwy 82.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 11-13-12 0900
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	391	405	376	490	385	382
Length (inches)	15.39	15.94	14.80	19.29	15.16	15.04
Weight (g)	518	512	396	976	490	452
Weight (oz)	18.27	18.06	13.97	34.43	17.28	15.94
Sex	M	F	M	F	F	M
Age	4	4	5	6		5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.115	.106	.098	.188	< .019	.11

Bottle Code: 11/13/2012 CABB-1 CHC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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 %	3.53
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CABB-1, Cahaba R - Cahaba River at US Hwy 82.

Spotted Bass (<i>Micropterus punctulatus</i>)						Collected: 11-13-12 0900
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	405	320	445	440	345	320
Length (inches)	15.94	12.60	17.52	17.32	13.58	12.60
Weight (g)	816	346	1,212	1,176	428	410
Weight (oz)	28.78	12.20	42.75	41.48	15.10	14.46
Sex	M	F	M	F	F	F
Age	4	2	4	4	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.213	.213	.203	.167	.215	.134

Bottle Code: 11/13/2012 CABB-1 SPB 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.01 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 %	2.34
Mercury ug/g	.216
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CAHP-5, Cahaba R - Cahaba River at AL Hwy 183.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 11-06-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	415	471	395	491	420	460
Length (inches)	16.34	18.54	15.55	19.33	16.54	18.11
Weight (g)	532	874	498	962	622	796
Weight (oz)	18.77	30.83	17.57	33.93	21.94	28.08
Sex	M	M	M	F	F	F
Age	5	8	6	7	7	6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .009	< .009	< .009	< .019	.124	< .009

Bottle Code: 11/6/2012 CAHP-5 CHC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.01 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
Mercury ug/g	.119
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CAHP-5, Cahaba R - Cahaba River at AL Hwy 183.

Spotted Bass (<i>Micropterus punctulatus</i>)						Collected: 11-06-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	455	379	301	311	347	299
Length (inches)	17.91	14.92	11.85	12.24	13.66	11.77
Weight (g)	1,156	732	346	306	484	254
Weight (oz)	40.78	25.82	12.20	10.79	17.07	8.96
Sex	F	M	F	M	M	M
Age	6	4	3	3	3	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.389	.178	.395	.177	.206	.181

Bottle Code: 11/6/2012 CAHP-5 SPB 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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 %	1.56
Mercury ug/g	.478
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CDRH-1, Cedar Ck - Cedar Ck north of Dothan at US Hwy 431.

Largemouth Bass (*Micropterus salmoides*)

Collected: 11-14-12 0900

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	464	426	398	232
Length (inches)	18.27	16.77	15.67	9.13
Weight (g)	1,270	954	854	138
Weight (oz)	44.80	33.65	30.12	4.87
Sex	F	F	F	M
Age	6	5	6	2
Age Method	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N
Mercury ug/g	.709	.407	.656	.437

COFC-19, Coffeeville Res - Approximately 1.5 miles downstream of US Hwy 80/AL Hwy 28 bridge. Tombigbee R miles 202.0-200.0.

Lat/Lon was calculated at RM 202.0.

Blue Catfish (<i>Ictalurus furcatus</i>)						Collected: 10-03-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	372	479	450	418	380	366
Length (inches)	14.65	18.86	17.72	16.46	14.96	14.41
Weight (g)	488	866	824	602	496	432
Weight (oz)	17.21	30.55	29.07	21.23	17.50	15.24
Sex	M	M	M	F	F	M
Age	5	9	7	4	4	5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .009	< .019	.118	.112	.105	< .019

Bottle Code: 10/3/2012 COFC-19 BLC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.012 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
LIPIDS (OUTSIDE LAB) %	.8
Lipid %	.64
Mercury ug/g	.083
Mirex ug/g	< .01
Selenium ug/g	.26 JI
Toxaphene ug/g	< .05

COFC-19, Coffeeville Res - Approximately 1.5 miles downstream of US Hwy 80/AL Hwy 28 bridge. Tombigbee R miles 202.0-200.0.

Lat/Lon was calculated at RM 202.0.

Spotted Bass (<i>Micropterus punctulatus</i>)						Collected: 10-03-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	384	356	374	387	320	331
Length (inches)	15.12	14.02	14.72	15.24	12.60	13.03
Weight (g)	812	578	652	740	406	524
Weight (oz)	28.64	20.39	23.00	26.10	14.32	18.48
Sex	F	F	M	M	F	M
Age	2	2	2	3	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.188	.336	.249	.354	.256	.243

Bottle Code: 10/3/2012 COFC-19 SPB 01-06	Composite - 6 Fish
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	< .1792
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
LIPIDS (OUTSIDE LAB) %	1.1
Lipid %	.29
Mercury ug/g	.265
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CONE-1, Conecuh R - Deepest point, main river channel, at AL/FL Stateline.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 11-07-12 1000
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	380	376	375	375	400	465
Length (inches)	14.96	14.80	14.76	14.76	15.75	18.31
Weight (g)	496	496	398	434	596	974
Weight (oz)	17.50	17.50	14.04	15.31	21.02	34.36
Sex	M	F	M	M	M	F
Age	4	4	4	4	4	5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	< .019	< .019	< .019	< .019	< .019	.137
Bottle Code: 11/7/2012 CONE-1 CHC 01-06						Composite - 6 Fish
2,3,7,8-TCDD Dioxin ppt						.63
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						< .1792
CADMIUM, TOTAL ug/g						< .0046
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) %						2
Lipid %						1.29
Mercury ug/g						< .019
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

CONE-1, Conecuh R - Deepest point, main river channel, at AL/FL Stateline.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 11-07-12 1000
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	417	340	290	330	336	316
Length (inches)	16.42	13.39	11.42	12.99	13.23	12.44
Weight (g)	962	484	284	482	468	430
Weight (oz)	33.93	17.07	10.02	17.00	16.51	15.17
Sex	M	M	M	F	F	M
Age	7	3	3	3	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Disease	Slight/Mild		Slight/Mild			
Mercury ug/g	.414	.908	.252	.3	.326	.263

Bottle Code: 11/7/2012 CONE-1 LMB 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.01 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
LIPIDS (OUTSIDE LAB) %	.6
Lipid %	.36
Mercury ug/g	.507
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

CTWD-1, Choctawhatchee R - Deepest point, main river channel, approximately 0.5 miles downstream of Little Choctawhatchee confluence, near State Hwy 92.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-30-12 0900

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	418	362	392	327	365	370
Length (inches)	16.46	14.25	15.43	12.87	14.37	14.57
Weight (g)	942	578	826	378	654	672
Weight (oz)	33.23	20.39	29.14	13.33	23.07	23.70
Sex	F	F	M	F	F	F
Age	7	4	3	5	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.712	.377	.374	.832	.404	.544

Redear Sunfish (*Lepomis microlophus*)

Collected: 10-30-12 0900

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	245	255	240	250	227	241
Length (inches)	9.65	10.04	9.45	9.84	8.94	9.49
Weight (g)	264	352	260	318	236	192
Weight (oz)	9.31	12.42	9.17	11.22	8.32	6.77
Sex	M	M	F	F	F	F
Age	3	6	4	4	3	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.256	.298	.297	.285	.197	.336

CTWG-1A, Choctawhatchee R - Choctawhatchee River 1.5 mi above the AL/FL state line approximately 3 miles downstream of Geneva, AL.

Largemouth Bass (*Micropterus salmoides*)

Collected: 11-08-12 0700

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	366	268	323	244
Length (inches)	14.41	10.55	12.72	9.61
Weight (g)	714	224	388	156
Weight (oz)	25.19	7.90	13.69	5.50
Sex	M	F	M	M
Age	3	1	1	1
Age Method	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N
Mercury ug/g	.439	.289	.298	.234

Redear Sunfish (*Lepomis microlophus*)

Collected: 11-08-12 0700

	Fish 1	Fish 2	Fish 3
Length (mm)	247	198	150
Length (inches)	9.72	7.80	5.91
Weight (g)	322	112	58
Weight (oz)	11.36	3.95	2.05
Sex	F	F	M
Age	4	4	1
Age Method	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N
Mercury ug/g	.175	.308	.103

Spotted Bass (*Micropterus punctulatus*)

Collected: 11-08-12 0700

	Fish 1
Length (mm)	283
Length (inches)	11.14
Weight (g)	296
Weight (oz)	10.44
Sex	F
Age	2
Age Method	Otolith
Skin on Fillet	N
Mercury ug/g	.197

DANW-6, Cahaba R - Deepest point, main river channel, Cahaba River embayment, approximately 0.5 miles upstream of lake confluence.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 11-14-12 1000
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	405	442	432	410	366	362
Length (inches)	15.94	17.40	17.01	16.14	14.41	14.25
Weight (g)	515	766	702	506	432	382
Weight (oz)	18.17	27.02	24.76	17.85	15.24	13.47
Sex	F	M	M	M	F	M
Age	6	7	7	8		6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.088	< .009	< .019	< .019	.103	.098
Bottle Code: 11/14/2010 DANW-6 CHC 01-06						Composite - 6 Fish
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						< .1792
CADMIUM, TOTAL ug/g						< .0046
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 %						3.78
Mercury ug/g						< .009
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

DANW-6, Cahaba R - Deepest point, main river channel, Cahaba River embayment, approximately 0.5 miles upstream of lake confluence.

Largemouth Bass (*Micropterus salmoides*)

Collected: 11-14-12 1000

	Fish 1	Fish 2	Fish 3
Length (mm)	360	372	401
Length (inches)	14.17	14.65	15.79
Weight (g)	672	796	928
Weight (oz)	23.70	28.08	32.73
Sex	M	F	F
Age	2	3	3
Age Method	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N

Mercury ug/g	< .019	.192	.117
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Bottle Code: 11/14/2010 DANW-6 LMB 01-03**Composite - 3 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	.01 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 %	6.92
Mercury ug/g	.104
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

DANW-6, Cahaba R - Deepest point, main river channel, Cahaba River embayment, approximately 0.5 miles upstream of lake confluence.

Spotted Bass (*Micropterus punctulatus*)

Collected: 11-14-12 1000

	Fish 1	Fish 2	Fish 3
Length (mm)	392	366	387
Length (inches)	15.43	14.41	15.24
Weight (g)	858	628	794
Weight (oz)	30.27	22.15	28.01
Sex	F	F	F
Age	3	1	3
Age Method	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N

Lesions Slight/Mild

Mercury ug/g	.11	< .019	< .019
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Bottle Code: 11/14/2012 DANW-6 SPB 01-03**Composite - 3 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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 %	7.35
Mercury ug/g	.096
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

FJAC-1, Frank Jackson Res - Deepest point, main creek channel, dam forebay.

Largemouth Bass (<i>Micropterus salmoides</i>)							Collected: 10-17-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	404	356	331	355	325	334	
Length (inches)	15.91	14.02	13.03	13.98	12.80	13.15	
Weight (g)	704	672	478	586	442	446	
Weight (oz)	24.83	23.70	16.86	20.67	15.59	15.73	
Sex	F	F	F	F	F	M	
Age	4	3	3	2	2	2	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	N	
Deformities	Moderate						
Mercury ug/g	.632	.805	.576	.536	.755	.541	

GMEX-3, Gulf Of Mexico - Gulf of Mexico

Gray Triggerfish (<i>Balistes capriscus</i>)						Collected: 08-06-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	360	390	380	360	355	320
Length (inches)	14.17	15.35	14.96	14.17	13.98	12.60
Weight (g)	550	722	658	618	610	654
Weight (oz)	19.40	25.47	23.21	21.80	21.52	23.07
Sex	F	F	F	F	F	F
Age	3	4	4	4	4	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 8/6/2012 GMEX-3 GTR 01-06						Composite - 6 Fish
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						9.13 JM
CADMIUM, TOTAL ug/g						.007 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 %						.17
Mercury ug/g						.125
Mirex ug/g						< .01
Selenium ug/g						.26 JI
Toxaphene ug/g						< .05

GMEX-4, Gulf Of Mexico - Gulf of Mexico

Red Snapper (<i>Lutjanus campechanus</i>)						Collected: 08-07-12 0730
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	420	405	340	390	250	390
Length (inches)	16.54	15.94	13.39	15.35	9.84	15.35
Weight (g)	986	880	582	868	266	824
Weight (oz)	34.78	31.04	20.53	30.62	9.38	29.07
Sex	F	F	M	M	M	M
Age	2	3	3	2	2	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 8/7/2012 GMEX-4 RSN 01-06						Composite - 6 Fish
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						< .1792
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 %						1.02
Mercury ug/g						< .019
Mirex ug/g						< .01
Selenium ug/g						.33 JI
Toxaphene ug/g						< .05

GMEX-5, Gulf Of Mexico - Gulf of Mexico

Sand Seatrout (Cynoscion arenarius)						Collected: 09-19-12 1300
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	219	234	227	256	248	246
Length (inches)	8.62	9.21	8.94	10.08	9.76	9.69
Weight (g)	108	126	114	170	152	154
Weight (oz)	3.81	4.44	4.02	6.00	5.36	5.43
Sex	M	F	F	F	M	F
Age	1	1	1	1	1	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 9/19/2012 GMEX-5 SST 01-06						Composite - 6 Fish
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						.18 JI
CADMIUM, TOTAL ug/g						.01 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 %						2.39
Mercury ug/g						< .019
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

GNTC-1, Gantt Res - Lower reservoir. Deepest point, main river channel, dam forebay.

	Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-17-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	364	355	371	345	367	396	
Length (inches)	14.33	13.98	14.61	13.58	14.45	15.59	
Weight (g)	638	554	726	508	634	830	
Weight (oz)	22.50	19.54	25.61	17.92	22.36	29.28	
Sex	M	F	M	M	F	M	
Age	2	2	2	2	3	5	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	N	
Mercury ug/g	.528	.285	.31	.219	.349	.568	

HOLT-1, Holt Res - Lower reservoir. Forebay area, downstream of Deerlick Creek public access area.

Blue Catfish (<i>Ictalurus furcatus</i>)						Collected: 10-04-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	275	295	308	368	368	368
Length (inches)	10.83	11.61	12.13	14.49	14.49	14.49
Weight (g)	144	180	418	372	412	422
Weight (oz)	5.08	6.35	14.74	13.12	14.53	14.89
Sex	F	M	F	F	F	M
Age	4	5	7	8	7	7
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/4/2012 HOLT-1 BLC 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.005 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
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

HOLT-1, Holt Res - Lower reservoir. Forebay area, downstream of Deerlick Creek public access area.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-04-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	344	427	428	400	376	354
Length (inches)	13.54	16.81	16.85	15.75	14.80	13.94
Weight (g)	500	1,068	970	982	688	628
Weight (oz)	17.64	37.67	34.22	34.64	24.27	22.15
Sex	M	F	F	M	M	M
Age	3	3	4	4	4	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/4/2012 HOLT-1 LMB 01-06	Composite - 6 Fish
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	< .1792
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 %	5.06
Mercury ug/g	.153
Mirex ug/g	< .01
Selenium ug/g	.26 JI
Toxaphene ug/g	< .05

Covington County

Lat/Lon: 30.99290 / -86.32470

JACC-1, L Jackson - Approximate center of lake.

Largemouth Bass (<i>Micropterus salmoides</i>)							Collected: 10-29-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	264	291	244	275	245	255	
Length (inches)	10.39	11.46	9.61	10.83	9.65	10.04	
Weight (g)	230	338	184	236	176	200	
Weight (oz)	8.11	11.92	6.49	8.32	6.21	7.05	
Sex	F	M	F	F	M	F	
Age	1	2	1	1	2	1	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	N	
Mercury ug/g	.297	.52	.324	.29	.521	.276	

Escambia County

Lat/Lon: 31.07361 / -87.09167

MRDE-1, Murder Ck - Between confluence with Burnt Corn Creek and Conecuh River.

Largemouth Bass (<i>Micropterus salmoides</i>)		Collected: 10-29-12 1500
	Fish 1	
Length (mm)	320	
Length (inches)	12.60	
Weight (g)	440	
Weight (oz)	15.52	
Sex	M	
Age	3	
Age Method	Otolith	
Skin on Fillet	N	
Mercury ug/g	.429	

Spotted Bass (<i>Micropterus punctulatus</i>)						Collected: 10-29-12 1500
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	
Length (mm)	344	294	292	283	283	
Length (inches)	13.54	11.57	11.50	11.14	11.14	
Weight (g)	480	294	318	250	270	
Weight (oz)	16.93	10.37	11.22	8.82	9.52	
Sex	F	F	F	F	F	
Age	6	3	4	4	3	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	
Mercury ug/g	.862	.688	.89	.79	.69	

OLIT-1, Oliver Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-03-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	345	300	375	325	370	286
Length (inches)	13.58	11.81	14.76	12.80	14.57	11.26
Weight (g)	368	198	496	254	464	176
Weight (oz)	12.98	6.98	17.50	8.96	16.37	6.21
Sex	M	M	M	F	M	F
Age	6	5	5	6	5	4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 10/3/2012 OLIT-1 CHC 01-06						Composite - 6 Fish
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						< .1792
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 %						1.89
Mercury ug/g						.108
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

OLIT-1, Oliver Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-03-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	436	354	362	364	418	383
Length (inches)	17.17	13.94	14.25	14.33	16.46	15.08
Weight (g)	1,194	588	694	658	1,172	798
Weight (oz)	42.12	20.74	24.48	23.21	41.34	28.15
Sex	M	F	F	M	F	M
Age	4	4	3	4	5	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Bottle Code: 10/3/2012 OLIT-1 LMB 01-06						Composite - 6 Fish
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						< .1792
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 %						3.06
Mercury ug/g						.258
Mirex ug/g						< .01
Selenium ug/g						.31 JI
Toxaphene ug/g						< .05

OPOJ-2, Opossum Ck - Opossum Ck at Woodward Road. OPOJ2: Upstream of Koppers Bridge.

Largemouth Bass (*Micropterus salmoides*)

Collected: 12-04-12 1000

	Fish 1	Fish 2
Length (mm)	315	254
Length (inches)	12.40	10.00
Weight (g)	502	200
Weight (oz)	17.71	7.05
Sex	F	F
Age	1	1
Age Method	Otolith	Otolith
Skin on Fillet	N	N
Lesions	Moderate	
2,4-DDD ug/g	< .01	< .01
2,4-DDE ug/g	< .01	< .01
2,4-DDT ug/g	< .01	< .01
4,4-DDD ug/g	< .01	< .01
4,4-DDE ug/g	< .01	< .01
4,4-DDT ug/g	< .01	< .01
Arochlor 1016 ug/g	< .05	< .05
Arochlor 1221 ug/g	< .05	< .05
Arochlor 1232 ug/g	< .05	< .05
Arochlor 1242 ug/g	< .05	< .05
Arochlor 1248 ug/g	< .05	< .05
Arochlor 1254 ug/g	< .05	< .05
Arochlor 1260 ug/g	< .05	< .05
Total PCB's ug/g	< .05	< .05
Arsenic ug/g	< .1792	< .1792
CADMIUM, TOTAL ug/g	< .0046	.005 JI
Chlordane ug/g	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01
Dieldrin ug/g	< .01	< .01
Endosulfan I ug/g	< .01	< .01
Endosulfan II ug/g	< .01	< .01
Endrin ug/g	< .01	< .01
Heptachlor ug/g	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05
Lindane (gamma BHC) ug/g	< .01	< .01
Lipid %	.46	.3
Mercury ug/g	< .019	< .019
Mirex ug/g	< .01	< .01
Selenium ug/g	.45 JI	.27 JI
Toxaphene ug/g	< .05	< .05

Coffee County

Lat/Lon: 31.40380 / -86.06900

PEAC-1, Pea R - Deepest point, main river channel, approximately 0.5 miles downstream of Beaverdam Creek/Pea River confluence, south of Elba, AL.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-30-12 1300

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	370	350	345	390	347	340
Length (inches)	14.57	13.78	13.58	15.35	13.66	13.39
Weight (g)	608	558	568	950	590	616
Weight (oz)	21.45	19.68	20.04	33.51	20.81	21.73
Sex	M	F	M	F	F	F
Age	4	2	2	2	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.446	.167	.275	.235	.358	.184

Geneva County

Lat/Lon: 31.02460 / -85.87600

PEAG-1, Pea R - Deepest point, main river channel, approximately 0.5 miles upstream of the confluence with Choctawhatchee River.

Largemouth Bass (*Micropterus salmoides*)

Collected: 11-08-12 1200

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	277	287	312	309	342	365
Length (inches)	10.91	11.30	12.28	12.17	13.46	14.37
Weight (g)	262	274	378	350	504	512
Weight (oz)	9.24	9.67	13.33	12.35	17.78	18.06
Sex	F	M	M	M	M	F
Age	1	1	4	1	3	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Lesions						Moderate
Mercury ug/g	.166	.225	.368	.245	.4	.224

Covington County

Lat/Lon: 31.36214 / -86.51637

PTAC-1, Point A Res - Lower reservoir. Deepest point, main river channel, dam forebay.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-16-12 1000

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	365	378	353	376	340	332
Length (inches)	14.37	14.88	13.90	14.80	13.39	13.07
Weight (g)	622	732	562	646	564	476
Weight (oz)	21.94	25.82	19.82	22.79	19.89	16.79
Sex	M	M	F	F	M	F
Age	4	5	2	3	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.252	.649	.279	.298	.257	.262

Covington County

Lat/Lon: 31.37855 / -86.52325

PTAC-2, Patsaliga Ck - Deepest point, main channel, Patsaliga Cr. embayment.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-16-12 1400

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	435	338	340	375	368	330
Length (inches)	17.13	13.31	13.39	14.76	14.49	12.99
Weight (g)	1,120	534	530	758	632	444
Weight (oz)	39.51	18.84	18.70	26.74	22.29	15.66
Sex	F	F	M	F	F	M
Age	6	2	5	4	3	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.554	.261	.601	.456	.331	.233

SMIW-12, Ryan Ck - Ryan Creek, Smith Reservoir approximately 2.2 miles upstream of Big Bridge and approximately 12 miles upstream of Sipsey Fork.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-10-12 0900
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	519	446	406	520	566	476
Length (inches)	20.43	17.56	15.98	20.47	22.28	18.74
Weight (g)	1,180	692	694	1,190	1,662	832
Weight (oz)	41.62	24.41	24.48	41.98	58.63	29.35
Sex	M	M	M	F	F	M
Age	6	4	4	5	5	6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Disease	Slight/Mild					
Mercury ug/g	.494	< .019	.173	.383	.254	.275
Bottle Code: 10/10/2012 SMIW-12 CHC 01-06						Composite - 6 Fish
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	< .1792					
CADMIUM, TOTAL ug/g	.01 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 %	1.16					
Mercury ug/g	.311					
Mirex ug/g	< .01					
Selenium ug/g	< .2501					
Toxaphene ug/g	< .05					

SMIW-12, Ryan Ck - Ryan Creek, Smith Reservoir approximately 2.2 miles upstream of Big Bridge and approximately 12 miles upstream of Sipsey Fork.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-10-12 0900

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	346	363	342	391	327	325
Length (inches)	13.62	14.29	13.46	15.39	12.87	12.80
Weight (g)	480	668	490	808	556	468
Weight (oz)	16.93	23.56	17.28	28.50	19.61	16.51
Sex	F	M	M	F	F	F
Age	2	3	2	3	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Internal Parasites	Slight/Mild					
Mercury ug/g	.228	.424	.353	.378	.452	.413

Bottle Code: 10/10/2012 SMIW-12 LMB 01-06**Composite - 6 Fish**

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	< .1792
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 %	1.29
Mercury ug/g	.37
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

SMIW-13, Rock Ck - Rock Creek, Smith Reservoir in vicinity of Little Crooked Creek and Rock Creek Marina. Approximately 5.0 miles upstream from Sipsey Fork.

Channel Catfish (*Ictalurus punctatus*)

Collected: 10-10-12 1400

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	468	480	495	510
Length (inches)	18.43	18.90	19.49	20.08
Weight (g)	866	1,130	1,218	1,384
Weight (oz)	30.55	39.86	42.96	48.82
Sex	M	F	M	F
Age	5	6	6	5
Age Method	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N

Mercury ug/g	.348	.206	< .019	.366
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Bottle Code: 10/10/2012 SMIW-13 CHC 01-04**Composite - 4 Fish**

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	< .1792
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 %	1.78
Mercury ug/g	.256
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

SMIW-13, Rock Ck - Rock Creek, Smith Reservoir in vicinity of Little Crooked Creek and Rock Creek Marina. Approximately 5.0 miles upstream from Sipse Fork.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 10-10-12 1400
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	415	360	405	370	455	390
Length (inches)	16.34	14.17	15.94	14.57	17.91	15.35
Weight (g)	829	636	898	624	1,052	1,020
Weight (oz)	29.24	22.43	31.68	22.01	37.11	35.98
Sex	F	M	M	M	F	M
Age	3	3	4	4	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.336	.277	.363	.428	.253	.393

Bottle Code: 10/10/2012 SMIW-13 LMB 01-06	Composite - 6 Fish
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	< .1792
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 %	1.76
Mercury ug/g	.435
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

SMIW-14, Smith Res - Smith Reservoir mouth of Clear Creek, mouth of Butler Creek, Sipsey Fork in vicinity of Clear and Butler creeks. 2.3 miles upstream of State Rt. 257 bridge.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-11-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	587	575	571	560	532	482
Length (inches)	23.11	22.64	22.48	22.05	20.94	18.98
Weight (g)	1,646	1,730	1,490	1,566	1,036	986
Weight (oz)	58.06	61.02	52.56	55.24	36.54	34.78
Sex	M	F	M	M	M	M
Age	6	6	7	6	4	4
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.228	.395	.139	.203	.147	.16

Bottle Code: 10/11/2012 SMIW-14 CHC 01-06	Composite - 6 Fish
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	< .1792
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 %	6.56
Mercury ug/g	.254
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

SMIW-14, Smith Res - Smith Reservoir mouth of Clear Creek, mouth of Butler Creek, Sipsey Fork in vicinity of Clear and Butler creeks. 2.3 miles upstream of State Rt. 257 bridge.

Spotted Bass (*Micropterus punctulatus*)

Collected: 10-11-12 0800

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	394	463	366	376	360	348
Length (inches)	15.51	18.23	14.41	14.80	14.17	13.70
Weight (g)	694	1,234	626	630	552	538
Weight (oz)	24.48	43.53	22.08	22.22	19.47	18.98
Sex	F	F	F	M	F	M
Age	4	7	3	4	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.918	.783	.465	.767	.622	.641

Bottle Code: 10/11/2012 SMIW-14 SPB 01-06**Composite - 6 Fish**

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	< .1792
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 %	5.03
Mercury ug/g	.611
Mirex ug/g	< .01
Selenium ug/g	.33 JI
Toxaphene ug/g	< .05

SPLE-1, Sepulga R - Sepulga River in vicinity of Brooklyn, AL.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-30-12 1200

	Fish 1
Length (mm)	297
Length (inches)	11.69
Weight (g)	312
Weight (oz)	11.01
Sex	M
Age	3
Age Method	Otolith
Skin on Fillet	N
Mercury ug/g	.487

Spotted Bass (*Micropterus punctulatus*)

Collected: 10-30-12 1200

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	300	255	300	295	276
Length (inches)	11.81	10.04	11.81	11.61	10.87
Weight (g)	320	234	344	338	260
Weight (oz)	11.29	8.25	12.13	11.92	9.17
Sex	M	F	M	F	M
Age	4	3	5	5	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N
Internal Parasites	Slight/Mild		Slight/Mild		Slight/Mild
Mercury ug/g	.941	.851	.75	.458	.889

TENR-281, Wheeler Res - Wheeler Reservoir (Tennessee River) at river mile 281. Approximately 2 miles downstream of the mouth of Elk River. Due south of Rogersville.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 10-10-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	340	555	427	392	425	497
Length (inches)	13.39	21.85	16.81	15.43	16.73	19.57
Weight (g)	570	1,446	672	468	752	1,170
Weight (oz)	20.11	51.01	23.70	16.51	26.53	41.27
Sex	M	F	M	M	M	M
Age	5	7	4	5	5	8
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 10/10/2012 TENR-281 CHC 01-06**Composite - 6 Fish**

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	.077
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	< .1792
CADMIUM, TOTAL ug/g	.012 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
LIPIDS (OUTSIDE LAB) %	2.9
Lipid %	2
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

TENR-281, Wheeler Res - Wheeler Reservoir (Tennessee River) at river mile 281. Approximately 2 miles downstream of the mouth of Elk River. Due south of Rogersville.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-10-12 1200

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	422	435	447	345	350	420
Length (inches)	16.61	17.13	17.60	13.58	13.78	16.54
Weight (g)	1,048	1,562	1,762	656	756	1,224
Weight (oz)	36.97	55.10	62.15	23.14	26.67	43.18
Sex	F	F	F	M	F	F
Age	2	3	3	1	1	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Lesions	Slight/Mild					

Bottle Code: 10/10/2012 TENR-281 LMB 01-06**Composite - 6 Fish**

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	.031
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	< .1792
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
LIPIDS (OUTSIDE LAB) %	2.6
Lipid %	.96
Mercury ug/g	< .009
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

TOMW-1, Tombigbee R - Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.

Black Crappie (*Pomoxis nigromaculatus*)

Collected: 11-27-12 1100

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	284	275	285	292	298	305
Length (inches)	11.18	10.83	11.22	11.50	11.73	12.01
Weight (g)	330	344	384	372	386	430
Weight (oz)	11.64	12.13	13.55	13.12	13.62	15.17
Sex	M	F	M	M	F	M
Age	4	2	3	3	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
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
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 %	1.59	2.53	1.51	.3	2.58	4.46
Mercury ug/g	.302	.116	.315	.246	.235	.173
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01

TOMW-1, Tombigbee R - Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.

Blue Catfish (*Ictalurus furcatus*)

Collected: 11-27-12 1100

	Fish 1
Length (mm)	625
Length (inches)	24.61
Weight (g)	2,530
Weight (oz)	89.24
Sex	M
Age	9
Age Method	Spine
Skin on Fillet	N
<hr/>	
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
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 %	7.19
Mercury ug/g	.283
Mirex ug/g	< .01

TOMW-1, Tombigbee R - Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.

Bluegill (<i>Lepomis macrochirus</i>)		Collected: 11-27-12 1100				
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	195	179	178	181	172	170
Length (inches)	7.68	7.05	7.01	7.13	6.77	6.69
Weight (g)	110	124	104	124	108	102
Weight (oz)	3.88	4.37	3.67	4.37	3.81	3.60
Sex	M	M	F	M	F	M
Age	3	2	2	4	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
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
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 %	2.53	.98	6.48	3.87	1.82	9.1
Mercury ug/g	.486	< .019	< .019	.247	.153	.196
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01

TOMW-1, Tombigbee R - Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.

Channel Catfish (*Ictalurus punctatus*)

Collected: 11-27-12 1100

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	545	459	400	360
Length (inches)	21.46	18.07	15.75	14.17
Weight (g)	1,344	738	438	300
Weight (oz)	47.41	26.03	15.45	10.58
Sex	F	M	M	M
Age	7	7	5	5
Age Method	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N
Internal Parasites	Moderate		Moderate	Moderate
2,4-DDD ug/g	< .01	< .01	< .01	< .01
2,4-DDE ug/g	< .01	< .01	< .01	< .01
2,4-DDT ug/g	< .01	< .01	< .01	< .01
4,4-DDD ug/g	< .01	< .01	< .01	< .01
4,4-DDE ug/g	< .01	< .01	< .01	< .01
4,4-DDT ug/g	< .01	< .01	< .01	< .01
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01
Dieldrin ug/g	< .01	< .01	< .01	< .01
Endosulfan I ug/g	< .01	< .01	< .01	< .01
Endosulfan II ug/g	< .01	< .01	< .01	< .01
Endrin ug/g	< .01	< .01	< .01	< .01
Heptachlor ug/g	< .01	< .01	< .01	< .01
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05
Lindane (gamma BHC) ug/l	< .01	< .01	< .01	< .01
Lipid %	1.42	1.56	.81	.93
Mercury ug/g	.181	.29	.19	.122
Mirex ug/g	< .01	< .01	< .01	< .01

TOMW-1, Tombigbee R - Tombigbee R at river mile 50.0 approximately 5 miles upstream of the confluence with the Alabama R.

Largemouth Bass (<i>Micropterus salmoides</i>)		Collected: 11-27-12 1100				
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	372	435	375	410	381	376
Length (inches)	14.65	17.13	14.76	16.14	15.00	14.80
Weight (g)	804	1,086	780	862	746	686
Weight (oz)	28.36	38.31	27.51	30.41	26.31	24.20
Sex	F	F	F	F	M	M
Age	2	4	3	4	2	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
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
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						< .1792
CADMIUM, TOTAL ug/g						.011 JI
Chlordane ug/g						< .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 %	1.52	1.07	1.73	.17	2.17	1.86
Mercury ug/g	.178	.318	.209	.609	.156	.227
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

TOMW-1A, Tombigbee R - One mile upstream of the Tombigbee R, Alabama R confluence.

Black Crappie (<i>Pomoxis nigromaculatus</i>)							Collected: 11-26-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	272	291	295	293	286	278	
Length (inches)	10.71	11.46	11.61	11.54	11.26	10.94	
Weight (g)	326	408	418	390	350	296	
Weight (oz)	11.50	14.39	14.74	13.76	12.35	10.44	
Sex	F	M	F	M	M	F	
Age	3	4	2	4	3	3	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
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	
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 %	2.38	8.78	1.3	1.97	3.02	1.06	
Mercury ug/g	.257	.27	.134	.203	.262	.273	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	

TOMW-1A, Tombigbee R - One mile upstream of the Tombigbee R, Alabama R confluence.

Blue Catfish (<i>Ictalurus furcatus</i>)							Collected: 11-26-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	451	376	341	441	367	311	
Length (inches)	17.76	14.80	13.43	17.36	14.45	12.24	
Weight (g)	832	446	326	740	362	216	
Weight (oz)	29.35	15.73	11.50	26.10	12.77	7.62	
Sex	M	M	M	M	M	M	
Age	5	5	5	6	4	5	
Age Method	Spine	Spine	Spine	Spine	Spine	Spine	
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	.025	< .01	< .01	
4,4-DDT 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 %	1.55	1.73	.17	.24	.19	< .1	
Mercury ug/g	.159	< .019	.113	< .019	.128	.093	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	

TOMW-1A, Tombigbee R - One mile upstream of the Tombigbee R, Alabama R confluence.

	Bluegill (<i>Lepomis macrochirus</i>)						Collected: 11-26-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	187	198	170	195	184	173	
Length (inches)	7.36	7.80	6.69	7.68	7.24	6.81	
Weight (g)	140	154	102	142	132	108	
Weight (oz)	4.94	5.43	3.60	5.01	4.66	3.81	
Sex	M	M	M	M	M	M	
Age	3	3	2	3	3	2	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
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	
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 %	1.08	1.05	< .1	< .1	.14	1.97	
Mercury ug/g	.251	.214	.126	.283	.141	.279	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	

TOMW-1A, Tombigbee R - One mile upstream of the Tombigbee R, Alabama R confluence.

Largemouth Bass (<i>Micropterus salmoides</i>)							Collected: 11-26-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6	
Length (mm)	421	442	386	385	345	326	
Length (inches)	16.57	17.40	15.20	15.16	13.58	12.83	
Weight (g)	622	1,364	860	876	550	460	
Weight (oz)	21.94	48.11	30.34	30.90	19.40	16.23	
Sex	F	F	F	M	M	M	
Age	2	3	3	2	3	1	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith	
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	
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 %	5.65	2	3.73	1.69	.33	< .1	
Mercury ug/g	.365	.65	.468	.217	.298	.215	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	< .01	

TUST-1, Tuscaloosa Res - Lower reservoir. Deepest point, main river channel, dam forebay . TUS1:Lake Tuscaloosa dam forebay vicinity.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 09-26-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	490	480	493	544	547	415
Length (inches)	19.29	18.90	19.41	21.42	21.54	16.34
Weight (g)	1,346	1,268	1,484	1,278	1,644	588
Weight (oz)	47.48	44.73	52.35	45.08	57.99	20.74
Sex	F	F	F	F	F	F
Age	6	5	5	7	6	6
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.137	.11	.105	.66	.137	.112

Bottle Code: 9/26/2012 TUST-1 CHC 01-06	Composite - 6 Fish
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	.028
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	< .1792
CADMIUM, TOTAL ug/g	.01 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
Mercury ug/g	.13
Mirex ug/g	< .01
Selenium ug/g	.27 JI
Toxaphene ug/g	< .05

TUST-1, Tuscaloosa Res - Lower reservoir. Deepest point, main river channel, dam forebay . TUS1:Lake Tuscaloosa dam forebay vicinity.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 09-26-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	335	330	319	359	344	340
Length (inches)	13.19	12.99	12.56	14.13	13.54	13.39
Weight (g)	446	472	420	560	478	494
Weight (oz)	15.73	16.65	14.82	19.75	16.86	17.43
Sex	F	F	M	F	F	F
Age	3	2	2	4	3	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.099	.163	.509	.711	.631	.766
Bottle Code: 9/26/2012 TUST-1 LMB 01-06						Composite - 6 Fish
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						< .1792
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 %						5.43
Mercury ug/g						.444
Mirex ug/g						< .01
Selenium ug/g						.34 JI
Toxaphene ug/g						< .05

TUST-3, Tuscaloosa Res - Mid reservoir. Deepest point, main river channel, approximately 1.0 mile downstream of Alabama Hwy. 69 bridge.

Largemouth bass left filet was lost in processing. Right filet was delivered to lab and analyzed.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 09-26-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	555	557	545	585	557	545
Length (inches)	21.85	21.93	21.46	23.03	21.93	21.46
Weight (g)	1,576	1,586	1,516	1,972	1,256	1,410
Weight (oz)	55.59	55.94	53.48	69.56	44.30	49.74
Sex	M	M	F	M	F	F
Age	6	5	5	7	6	5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.081	.246	.11	.123	.175	.218
Bottle Code: 9/26/2012 TUST-3 CHC 01-06						Composite - 6 Fish
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						< .1792
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 %						.81
Mercury ug/g						.23
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

TUST-3, Tuscaloosa Res - Mid reservoir. Deepest point, main river channel, approximately 1.0 mile downstream of Alabama Hwy. 69 bridge.

Largemouth bass left filet was lost in processing. Right filet was delivered to lab and analyzed.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 09-26-12 0800
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	349	384	366	353	324	336
Length (inches)	13.74	15.12	14.41	13.90	12.76	13.23
Weight (g)	734	726	582	540	414	478
Weight (oz)	25.89	25.61	20.53	19.05	14.60	16.86
Sex	M	F	M	F	M	F
Age	3	3	2	3	4	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.375	.297	.322	.507	.55	.287
Bottle Code: 9/26/2012 TUST-3 LMB 01-06						Composite - 6 Fish
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						< .1792
CADMIUM, TOTAL ug/g						.012 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 %						6.21
Mercury ug/g						.39
Mirex ug/g						< .01
Selenium ug/g						.3 JI
Toxaphene ug/g						< .05

TUST-4, Tuscaloosa Res - North River immediately upstream of Bull Slough Road crossing, deepest point, main channel.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-23-12 0700

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	438	354	361	380	397	351
Length (inches)	17.24	13.94	14.21	14.96	15.63	13.82
Weight (g)	1,254	568	542	630	780	594
Weight (oz)	44.23	20.04	19.12	22.22	27.51	20.95
Sex	M	M	M	F	M	M
Age	5	2	2	4	3	3
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.611	.457	.32	.381	.308	.482

Bottle Code: 10/23/2012 TUST-4 LMB 01-06**Composite - 6 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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
Mercury ug/g	.418
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

TUST-4, Tuscaloosa Res - North River immediately upstream of Bull Slough Road crossing, deepest point, main channel.

Channel Catfish (*Ictalurus punctatus*)

Collected: 11-06-12 0800

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	458	545	507	517	475
Length (inches)	18.03	21.46	19.96	20.35	18.70
Weight (g)	800	1,504	1,114	1,268	842
Weight (oz)	28.22	53.05	39.30	44.73	29.70
Sex	F	F	F	F	F
Age	5	5	5	6	4
Age Method	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N
Mercury ug/g	.109	.154	< .019	< .019	< .019

Bottle Code: 11/6/2012 TUST-4 CHC 01-05**Composite - 5 Fish**

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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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 %	.29
Mercury ug/g	.094
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

TUST-5, Binion Ck - Binion Creek, deepest point, main channel, immediately upstream of Hwy 43.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 09-26-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	
Length (mm)	512	560	520	565	505	
Length (inches)	20.16	22.05	20.47	22.24	19.88	
Weight (g)	1,334	1,918	1,398	1,996	1,208	
Weight (oz)	47.06	67.66	49.31	70.41	42.61	
Sex	M	M	F	F	F	
Age	7	7	6	6	6	
Age Method	Spine	Spine	Spine	Spine	Spine	
Skin on Fillet	N	N	N	N	N	
Mercury ug/g	.303	.432	.417	.249	.248	
Bottle Code: 9/26/2012 TUST-5 CHC 01-05						Composite - 5 Fish
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						< .1792
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 %						1.23
Mercury ug/g						.253
Mirex ug/g						< .01
Selenium ug/g						< .2501
Toxaphene ug/g						< .05

TUST-5, Binion Ck - Binion Creek, deepest point, main channel, immediately upstream of Hwy 43.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 09-26-12 1100
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	350	373	353	375	340	370
Length (inches)	13.78	14.69	13.90	14.76	13.39	14.57
Weight (g)	592	588	585	646	544	704
Weight (oz)	20.88	20.74	20.64	22.79	19.19	24.83
Sex	F	F	M	F	F	M
Age	4	4	3	3	2	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N
Mercury ug/g	.448	.609	.369	.35	.285	.64
Bottle Code: 9/26/2012 TUST-5 LMB 01-06						Composite - 6 Fish
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						< .1792
CADMIUM, TOTAL ug/g						.012 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 %						3
Mercury ug/g						.408
Mirex ug/g						< .01
Selenium ug/g						.32 JI
Toxaphene ug/g						< .05

VALJ-9, Valley Ck - Downstream of Opossum Ck confluence.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 11-26-12 0900
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	
Length (mm)	347	341	302	308	242	
Length (inches)	13.66	13.43	11.89	12.13	9.53	
Weight (g)	724	642	388	416	198	
Weight (oz)	25.54	22.65	13.69	14.67	6.98	
Sex	M	F	M	F	M	
Age	2	3	3	4	1	
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	
Skin on Fillet	N	N	N	N	N	
Disease		Slight/Mild				
Internal Parasites		Slight/Mild				
2,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	
2,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	
2,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	
4,4-DDD ug/g	< .01	< .01	< .01	< .01	< .01	
4,4-DDE ug/g	< .01	< .01	< .01	< .01	< .01	
4,4-DDT ug/g	< .01	< .01	< .01	< .01	< .01	
Arochlor 1016 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1221 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1232 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1242 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1248 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1254 ug/g	< .05	< .05	< .05	< .05	< .05	
Arochlor 1260 ug/g	< .05	< .05	< .05	< .05	< .05	
Total PCB's ug/g	< .05	< .05	< .05	< .05	< .05	
Arsenic ug/g	< .1792	< .1792	< .1792	< .1792	< .1792	
CADMIUM, TOTAL ug/g	< .0046	< .0046	.01 JI	.005 JI	< .0046	
Chlordane ug/g	< .01	< .01	< .01	< .01	< .01	
Dursban(chlorpyrifos) ug/g	< .01	< .01	< .01	< .01	< .01	
Dieldrin ug/g	< .01	< .01	< .01	< .01	< .01	
Endosulfan I ug/g	< .01	< .01	< .01	< .01	< .01	
Endosulfan II ug/g	< .01	< .01	< .01	< .01	< .01	
Endrin ug/g	< .01	< .01	< .01	< .01	< .01	
Heptachlor ug/g	< .01	< .01	< .01	< .01	< .01	
Heptachlor-epoxide ug/g	< .01	< .01	< .01	< .01	< .01	
Hexachlorobenzene ug/g	< .05	< .05	< .05	< .05	< .05	
Lindane (gamma BHC) ug/g	< .01	< .01	< .01	< .01	< .01	
Lipid %	1.48	1	.26	.17	.43	
Mercury ug/g	.096	< .019	< .019	.132	< .019	
Mirex ug/g	< .01	< .01	< .01	< .01	< .01	
Selenium ug/g	.27 JI	.34 JI	.32 JI	.31 JI	.32 JI	
Toxaphene ug/g	< .05	< .05	< .05	< .05	< .05	

VALJ-9, Valley Ck - Downstream of Opossum Ck confluence.

Spotted Bass (*Micropterus punctulatus*)

Collected: 11-26-12 0900

	Fish 1
Length (mm)	301
Length (inches)	11.85
Weight (g)	370
Weight (oz)	13.05
Sex	M
Age	1
Age Method	Otolith
Skin on Fillet	N
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	< .1792
CADMIUM, TOTAL ug/g	< .0046
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 %	1.68
Mercury ug/g	< .019
Mirex ug/g	< .01
Selenium ug/g	.34 JI
Toxaphene ug/g	< .05

WARG-1, Warrior Res - Lower reservoir. Deepest point, main river channel, dam forebay. WAR1: Warrior Res, dam forebay approximately river mile 263.

Channel Catfish (<i>Ictalurus punctatus</i>)						Collected: 09-25-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	487	485	483	395	392	410
Length (inches)	19.17	19.09	19.02	15.55	15.43	16.14
Weight (g)	1,022	1,106	1,050	526	488	700
Weight (oz)	36.05	39.01	37.04	18.55	17.21	24.69
Sex	M	F	F	F	M	F
Age	7	6	6	6	6	5
Age Method	Spine	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 9/25/2012 WARG-1 CHC 01-06	Composite - 6 Fish
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	< .1792
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 %	2.26
Mercury ug/g	.128
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

WARG-1, Warrior Res - Lower reservoir. Deepest point, main river channel, dam forebay. WAR1: Warrior Res, dam forebay approximately river mile 263.

Largemouth Bass (<i>Micropterus salmoides</i>)						Collected: 09-25-12 1200
	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	382	387	362	345	375	339
Length (inches)	15.04	15.24	14.25	13.58	14.76	13.35
Weight (g)	786	834	608	460	680	562
Weight (oz)	27.73	29.42	21.45	16.23	23.99	19.82
Sex	M	M	M	F	M	F
Age	3	3	3	4	4	2
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 9/25/2012 WARG-1 LMB 01-06	Composite - 6 Fish
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	< .1792
CADMIUM, TOTAL ug/g	.012 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 %	3.02
Mercury ug/g	.168
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

WARG-2, Warrior Res - Mid reservoir. Deepest point, main river channel, immediately downstream of Lock 8 Public Use Area.

Blue Catfish (*Ictalurus furcatus*)

Collected: 09-25-12 1500

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5
Length (mm)	345	386	454	418	610
Length (inches)	13.58	15.20	17.87	16.46	24.02
Weight (g)	332	468	740	558	1,988
Weight (oz)	11.71	16.51	26.10	19.68	70.12
Sex	M	M	M	F	F
Age	5	7	8	7	7
Age Method	Spine	Spine	Spine	Spine	Spine
Skin on Fillet	N	N	N	N	N

Bottle Code: 9/25/2012 WARG-2 BLC 01-05**Composite - 5 Fish**

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	< .1792
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 %	2.08
Mercury ug/g	< .009
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

WARG-2, Warrior Res - Mid reservoir. Deepest point, main river channel, immediately downstream of Lock 8 Public Use Area.

Channel Catfish (Ictalurus punctatus)

Collected: 09-25-12 1500

	<u>Fish 1</u>
Length (mm)	417
Length (inches)	16.42
Weight (g)	622
Weight (oz)	21.94
Sex	F
Age	6
Age Method	Spine
Skin on Fillet	N
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	.301
Arochlor 1260 ug/g	.172
Total PCB's ug/g	.473
Arsenic ug/g	< .1792
CADMIUM, TOTAL ug/g	.012 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 %	4.93
Mercury ug/g	.477
Mirex ug/g	< .01
Selenium ug/g	< .2501
Toxaphene ug/g	< .05

WARG-2, Warrior Res - Mid reservoir. Deepest point, main river channel, immediately downstream of Lock 8 Public Use Area.

Largemouth Bass (*Micropterus salmoides*)

Collected: 09-25-12 1500

	Fish 1	Fish 2	Fish 3	Fish 4	Fish 5	Fish 6
Length (mm)	383	344	346	333	369	432
Length (inches)	15.08	13.54	13.62	13.11	14.53	17.01
Weight (g)	804	546	596	552	620	1,204
Weight (oz)	28.36	19.26	21.02	19.47	21.87	42.47
Sex	F	M	M	F	F	F
Age	5	2	3	3	3	4
Age Method	Otolith	Otolith	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N	N	N

Bottle Code: 9/25/2012 WARG-2 LMB 01-06**Composite - 6 Fish**

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	.18 JI
CADMIUM, TOTAL ug/g	.012 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 %	.99
Mercury ug/g	.175
Mirex ug/g	< .01
Selenium ug/g	.3 JI
Toxaphene ug/g	< .05

YERC-3, Yellow R - Deepest point, main river channel, at Covington Co Rd 4 bridge.

Largemouth Bass (*Micropterus salmoides*)

Collected: 10-30-12 0800

	Fish 1	Fish 2
Length (mm)	315	310
Length (inches)	12.40	12.20
Weight (g)	428	374
Weight (oz)	15.10	13.19
Sex	M	M
Age	4	3
Age Method	Otolith	Otolith
Skin on Fillet	N	N
Mercury ug/g	.6	.733

Spotted Bass (*Micropterus punctulatus*)

Collected: 10-30-12 0800

	Fish 1	Fish 2	Fish 3	Fish 4
Length (mm)	317	325	313	376
Length (inches)	12.48	12.80	12.32	14.80
Weight (g)	386	420	468	718
Weight (oz)	13.62	14.82	16.51	25.33
Sex	F	M	F	
Age	4	5	4	4
Age Method	Otolith	Otolith	Otolith	Otolith
Skin on Fillet	N	N	N	N
Mercury ug/g	.488	.472	.319	.669

ADEM Qualifiers *

JI - Estimated/Between MDL & PQL

JM - Estimated/Matrix Interference

** See SOP #4910 for more details.*