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**Kingston Ash Recovery Project
Non-Time-Critical Removal Action**

**River System Sampling and Analysis Plan
Task Completion Technical Memorandum
Fish Sampling**

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for the Tennessee Valley Authority

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List of Acronyms

ALS Laboratory	ALS Laboratory Group
ASU	Appalachian State University
CFR	Code of Federal Regulations
CRM	Clinch River Mile
DQO	data quality objective
EDD	electronic data deliverable
EE/CA	Engineering Evaluation/Cost Analysis
ERM	Emory River Mile
KIF	Kingston Fossil Plant
LERM	Little Emery River Mile
MDL	method detection limit
ORNL	Oak Ridge National Laboratory
Pace Analytical	Pace Analytical Services, Inc.
PCB	polychlorinated biphenyl
QC	quality control
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
TDEC	Tennessee Department of Environment and Conservation
TM	Technical Memorandum
TRM	Tennessee River Mile
TVA	Tennessee Valley Authority
TWRA	Tennessee Wildlife Resources Agency
WP	Work Package

1. PURPOSE

The purpose of this Technical Memorandum (TM) is to summarize the completion of the 2010 fish sampling as described in the approved *Kingston Ash Recovery Project Non-Time-Critical Removal Action for the River System Sampling and Analysis Plan* (SAP), Rev. 3, May 24, 2010, Document No. EPA-AO-021. In addition, this TM summarizes data collected in 2009, including baseline sampling, regulator special request samples, and Swan Pond Embayment samples. Data from 2010 third-party research institution split samples are also discussed and summarized. This TM is one of a series being prepared to summarize the field work and data collection activities as SAP tasks are completed. The TM series is intended to provide interim presentations of data that will become the basis for the nature and extent of contamination section of the River System Engineering Evaluation/Cost Analysis (EE/CA) Report. No data evaluation or conclusions are presented. Those on the distribution list for these TMs are anticipated to be principal reviewers of the EE/CA Report, so this provides the opportunity to review data summaries in advance of the complete report.

This TM summarizes sampling performed in 2009 and 2010 to assess bioaccumulation of ash-related contaminants (primarily metals and metalloids) in fish potentially exposed to released ash, and the data resulting from those collections.

This TM has been revised to include bioaccumulation data for select speciated metals, chlorinated pesticides, polychlorinated biphenyls (PCBs), and radionuclides that were analyzed for a fraction of the fish samples, but for which data were not available when the original TM was issued. In addition, Oak Ridge National Laboratory (ORNL) collected information on fish health and reproduction in 2009 and 2010. That data will be presented in an ORNL report scheduled to be completed in January 2012.

2. BACKGROUND

The data quality objective (DQO) problem statement for fish sampling is:

Naturally-occurring metals (e.g., arsenic, selenium) and radionuclides (e.g., radium-226, thorium-228) in ash may accumulate in fish to concentrations that pose unacceptable risk to human or ecological receptors who regularly consume fish from the river system.

Section 2.2.8 of the SAP discusses the design of the fish sampling studies. Fish communities of interest include both pelagic (open-water or “top feeding”) and benthic (bottom-dwelling or “bottom-feeding”) communities. Concentrations of ash-related constituents may bioaccumulate in fish over time. In addition, fish are a food source for human recreators who consume fish and for the aquatic- or riparian-feeding piscivorous wildlife. To estimate the potential ingestion of ash-related constituents in fish by human or ecological receptors, the concentrations of those constituents in fish tissues must be determined.

Fish sampling began in January 2009, immediately following the spill, to document baseline contamination conditions at the site. The purpose of that sampling was to collect fish before there was sufficient time for ash-related contaminants to bioaccumulate in resident fish. Fish sampling continued through the spring, summer, and fall of 2009. In February 2010, the SAP was approved; it included a fish sampling plan for the Emory and Clinch Rivers. Sampling in the spring and fall of 2010 followed this plan. Several agencies (Tennessee Valley Authority [TVA], Tennessee Department of Environment and Conservation [TDEC], Tennessee Wildlife Resources Agency [TWRA], ORNL, Tennessee Aquarium, and Appalachian State University [ASU]) have contributed to the various fish sampling events described in this TM. The species collected for the different events vary, along with the type of sample (whole body, fillet, organ, etc.) and the chemical analyses. Samples were collected using either electrofishing or gill netting. Each sampling event is described in Section 3, Sampling and Analysis Activities.

3. SAMPLING AND ANALYSIS ACTIVITIES

Field sampling activities occurred immediately after the release in January 2009, and continued in the spring and fall of 2009 and 2010. Sampling was conducted in accordance with the procedures described in Standard Operating Procedure (SOP) TVA-KIF-SOP-31 *Fish Sampling with Gill Nets*, (issued August 2010), TVA-KIF-SOP-32 *Fish Sampling with Seines*, (issued August 2010), and TVA-KIF-SOP-33 *Fish Sampling with Boat Mounted Electrofishing*, (issued June 2010). Sampling was performed in the Emory, Clinch, and Tennessee Rivers. Target species and collection types for each collection are described below.

Baseline Fish, Spring 2009

Baseline post-spill sampling of fish from locations on the Emory and Clinch Rivers (Emory River Mile [ERM] 0.5, Clinch River Mile [CRM] 1.5, and CRM 9.5) was conducted in January and February 2009 and supplemental sampling event at ERM 8.0 in April 2009 to document concentrations of metals in fish tissue and fish health. TVA, TDEC, TWRA, and ORNL collaborated in collecting 53 fish consisting of largemouth bass, channel catfish, blue catfish, and spotted bass. The 53 fish were individually processed and homogenized at TDEC and subsequently split among several laboratories for analysis for metals in muscle (fillet) tissues. The results from this initial study are considered to represent baseline conditions existing at the time of and immediately prior to the ash spill. They were intended to provide a basis for future bioaccumulation comparisons. These data also were used to evaluate potential human health impacts due to fish consumption immediately after the release, when little bioaccumulation would have occurred.

At the time of the initial chemical analyses of these fish, results were reported to the specified project reporting limits. This resulted in numerous non-detected results that made evaluation of spatial and temporal trends difficult. Project quality assurance protocols were revised so that all subsequent fish sample analyses have been reported to the project method detection limit (MDL). The project MDL is set at the higher value between the Code of Federal Regulations (CFR), Title 40, Protection of Environment, MDL and 3σ of the average blanks. The 40 CFR MDL is the lowest concentration that the instrument can be proved to detect, based on multiple low-level known standards run with each sample group. In addition to generating the 40 CFR MDL, Pace also evaluated the 3σ of the average value of the blanks analyzed over a period of time. The project MDL was set at the highest value between these two determinations. The best commercially available technology and U.S. Environmental Protection Agency-approved methodologies were used. These rigorous testing protocols were used to generate the lowest defensible MDLs for all abiotic and biotic media analyzed by TVA for this project since September 2009.

In order to facilitate useful trend analysis, a decision was made to reanalyze the frozen, retained baseline fish samples in order to report values to the project MDLs. In 2011, frozen homogenate tissue (36 samples) and fillets (53 samples) from the 53 baseline fish were reanalyzed for metals.

The original baseline fish results and the reanalyzed baseline fish results have been compared and presented by Arcadis in a TM, *Baseline Fish Reanalysis* (Arcadis 2011). As a result, both the original and reanalyzed datasets are provided in Appendix A. Based on current holding time requirements, all detected results for the re-analyses are qualified as estimated and all non-detected results in the reanalyzed baseline fish are qualified as rejected. Further investigation is underway to evaluate whether the current project holding times for frozen fish tissues may be extended in order to remove the “estimated” qualification.

TDEC Special Request I, Spring 2009

In March 2009, in preparation for testimony before a U.S. Congressional subcommittee, TDEC requested TVA assistance in collecting composite samples of bass and sunfish for metals/metalloids bioaccumulation analyses. Four redear sunfish and four largemouth bass were collected from ERM 3.0, homogenized by species as whole fish composite samples, and analyzed for a suite of 25 metals.

TDEC Special Request II, Spring 2009

In April and May 2009, TDEC requested TVA assistance in collecting crappie for whole fish analysis from four sites (ERM 0.9, ERM 2.0/3.0, ERM 8.0, and CRM 8.0). Five black crappie were collected from each location, homogenized as whole fish, and analyzed for a suite of 25 elements.

TVA Sampling, Spring 2009

In April through July 2009, TVA, TDEC, TWRA, and ORNL collaborated in collecting fish for bioaccumulation, health, and reproduction studies. Fish species sampled included largemouth bass (fillet, liver, ovary), bluegill (fillet, liver, ovary), and white and black crappie (fillet, liver, ovary). Samples were collected by electroshocking near ERM 0.9, ERM 3.0, ERM 8.0, CRM 1.5, and CRM 7.0/8.0. At each site and for each species, the goal was to collect eight mature females with developed gonads. However, in a few cases, the target of eight individuals was not achieved for some species because of limited availability of mature females at a site. A blood sample was taken from each fish immediately upon collection, and a unique 5 digit identification number was affixed to each individual. Fish were then placed in a livewell onboard the boat. At the end of each day of sampling, fish were transported to ORNL in aerated containers filled with water from the site.

At ORNL, all fish were processed for a suite of individual health indicators (e.g., blood chemistry and physical condition) and the liver, ovaries, and fillets (muscle tissue) from six of the eight fish were harvested for metals analysis. Due to small sample masses, the liver and ovary tissues from these samples were analyzed only by the ORNL-contracted laboratory, ALS Laboratory Group, Fort Collins, CO (ALS Laboratory); fillets were analyzed by both ALS Laboratory and by TVA-contracted laboratory, Pace Analytical Services, Inc., Green Bay, WI (Pace Analytical). As a result, the analytical results for liver and ovary tissue are not yet included in the TVA project database and are not summarized in the tables presented in Appendix A.

Gizzard shad (whole body) also were collected to assess the role and importance of a main forage fish (shad) as a mechanism by which contaminants associated with fly ash are incorporated into the aquatic-terrestrial food chain. Shad are the primary forage fish of the larger piscivorous fish (i.e., bass) and also piscivorous birds (i.e., great blue heron and osprey). They also graze on primary producers (periphyton), thus representing an important step in trophic transfer of contaminants. Due to their small size, three composite samples consisting of 10 whole shad each were collected from each of the five sites.

TWRA Special Request, Summer 2009

In June and July 2009, TVA, TDEC, TWRA, and ORNL collaborated in additional fish collections for bioaccumulation studies in the Emory River (ERM 0.7, ERM 1.0, and ERM 6.0). Species sampled included largemouth bass (whole body), channel catfish (whole body, ovary), and blue catfish (whole body).

TVA Swan Pond Embayment Sampling, Summer 2009

In June 2009, fish from the Swan Pond East Embayment were captured for relocation to the Emory River. The capture and transfer was conducted to prevent a die-off of fish in the embayment due to reduced oxygen levels and increasing water temperatures in the stagnant water body. Approximately 1,300 fish were collected for transfer, of which 96 fish (largemouth bass, bluegill, gizzard shad, and redear sunfish) were retained for chemical analysis. Five individual largemouth bass were analyzed as whole fish homogenates. The remaining fish were analyzed as homogenized composite whole fish (or whole fish minus gut content) samples. These included six bluegill composite samples, two gizzard shad composite samples, and two redear sunfish composite samples.

TVA Sampling, Fall 2009

In September through November 2009, TVA, TDEC, TWRA, and ORNL collaborated in collecting fish for bioaccumulation and health study. Several different measurements were used to assess fish health. These included biochemical indicators (e.g., blood chemistry), physical condition, and analyses of tissues and organs for metals content. Fish species sampled included largemouth bass (fillet, whole body minus gut content), channel catfish (fillet), and bluegill (fillet, whole body minus gut content). Samples were collected at three locations each on the Emory River (ERM 0.9, ERM 2.0/3.0, and ERM 8.0) and Clinch River (CRM 1.5, CRM 8.0, and CRM 25.0) and one location on the Little Emory River (LERM 2.0). Eight individuals of each species were collected per site. Immediately upon collection by boat electrofishing, a blood sample was taken from each fish, a tag with a unique 5 digit identification number was affixed to each individual, fish were then placed in a livewell onboard the boat, and transported to the lab alive for processing for bioaccumulation and fish health. At ORNL, fish were processed for a variety of individual health indicators and the liver and fillets harvested from six individuals of each species for metals analysis.

Composite samples of gizzard shad (whole body) were also collected at ERM 2.0/3.0, CRM 1.5, CRM 8.0, and CRM 25.0, and gizzard shad (whole body) and threadfin shad (whole body) were collected from the Swan Pond East Embayment.

Tennessee Aquarium / ASU, Winter 2010

In January 2010, the Tennessee Aquarium and ASU collected largemouth bass (fillet, liver, ovary), redear sunfish (fillet), long ear sunfish (whole body), gizzard shad (fillet, liver, ovary), bluegill (whole body), white crappie (fillet, ovary) and black crappie (fillet, liver, ovary) from locations on the Clinch River (CRM 3.5 and CRM 5.5) and Tennessee River (Tennessee River Mile (TRM) 567.0). At TVA's request, split samples were sent from ASU to Pace Analytical and were analyzed for a suite of elements. These samples were collected to assess the quality associated with the measurements made at the research institutions analytical laboratory.

TVA SAP Sampling, Spring 2010

In April through July 2010, TVA, TDEC, TWRA, and ORNL collaborated in the collection of fish for bioaccumulation evaluation. Fish collected were examined for anomalies (such as disease, deformations, or hybridizations). Samples were collected from four locations on the Emory River (ERM 0.9, ERM 2.0/3.0, ERM 4.5, and ERM 8.0), four locations on the Clinch River (CRM 1.5, CRM 3.5, CRM 8.0, and CRM 25.0), and one location on the Little Emory River (LERM 2.0). Samples were collected using a combination of electroshocking and gill netting as needed to obtain sufficient sample mass for analysis.

In accordance with the SAP, samples of largemouth bass, bluegill, and channel catfish were collected. Up to six replicates were collected of each species at each sample reach location to measure variability. Both fillet and non-fillet (carcass) portions of each sample were analyzed for metals and speciation of arsenic. To the extent that a sample mass allowed, 25% of the samples were also analyzed for PCBs and chlorinated pesticides as legacy constituents in the river system. For fillet portions, 25% of the samples were analyzed for radionuclides to assess potential risk to human health. Where insufficient sample mass was available, samples were composited to achieve the necessary mass. Percent moisture and percent lipids were also determined for each sample.

Samples of gizzard shad were also collected to evaluate food web exposures. Samples were collected from the same nine locations as the other fish species. Because of their small size, up to 10 individual fish were composited into a single sample, with up to three composite samples at each location. Samples analyzed included whole fish, whole fish with gut and gut content removed, and gut and gut content. No fillet data were collected as shad are not typically eaten by humans. Shad samples were analyzed for metals. In November 2011, it was determined that per the SAP, 25% of the gizzard shad should have been analyzed for arsenic speciation, PCBs, and chlorinated pesticides. These analyses were requested in November 2011 and the results are expected January 2012.

Tennessee Aquarium / ASU, Fall 2010

In September 2010, the Tennessee Aquarium and ASU collected largemouth bass (fillet) and redear sunfish (fillet) from locations on the Emory River (ERM 2.0, ERM 3.5) and Clinch River (CRM 5.5). Split samples were sent from ASU to Pace Analytical and were analyzed for a suite of 25 metals. These samples were collected to assess the quality associated with the measurements made at the research institution's analytical laboratory and are presented as both wet weight and freeze dried.

TVA SAP Sampling, Fall 2010

In September, October, and December 2010, and January 2011, TVA, TDEC, TWRA, and ORNL collaborated in the collecting fish for bioaccumulation evaluation. Fish collected were examined for anomalies (such as disease, deformations, or hybridizations). Samples were collected from four locations on the Emory River (ERM 0.9, ERM 2.5/3.0, ERM 4.5, and ERM 8.0), three locations on the Clinch River (CRM 1.5, CRM 3.5, and CRM 8.0), and one location on the Little Emory River (LERM 2.0). Samples were collected using a combination of electroshocking and gill netting as required for obtaining sufficient sample volume for analysis. In accordance with the SAP, samples of largemouth bass, bluegill, and catfish were collected. Up to six replicates were collected of each species at each sample reach location to measure variability within the reach. Both fillet and non-fillet (whole body minus gut content) portions of each sample were analyzed for metals and speciation of arsenic. To the extent that a sample mass allowed, 25% of the samples were also analyzed for PCBs and chlorinated pesticides as legacy constituents in the river system. For fillet portions, 25% of the samples were analyzed for radionuclides to assess potential risk to human health. Where insufficient sample mass was available, samples were composited to achieve the necessary mass. Percent moisture and percent lipids were also determined for each sample, when sufficient sample mass was available.

Samples of gizzard shad also were collected from the same locations as the other fish species, with the exception of the Little Emory River (LERM 2.0). Individual fish were composited into a single sample, with up to three composite samples at each location. Samples analyzed included whole body fish, whole body fish with gut content removed, and gut and gut content. Shad samples were analyzed for metals, and 25% were analyzed for arsenic speciation. Approximately 25% of the samples were also analyzed for PCBs and chlorinated pesticides.

Samples were shipped to the lab on dry ice for chemical analysis. Field collection activities for 2009 and 2010 are summarized in Table 1.

Table 1. Summary of Fish Field Activities

Summary	2009	2010
Field Collection Periods ^a	January – June; September – January 2010	April – July; September – January 2011
Species Collected ^b	BS, BG, CF, GS, CR, RS	BS, BG, CF, GS, CR, RS, LS
Endpoints	Bioaccumulation; Reproduction; Health	Bioaccumulation; Reproduction; Health
Collectors	TVA, ORNL, TDEC, TWRA	TVA, ORNL, TDEC, TWRA, Tennessee Aquarium / ASU

Notes:

^aSee Appendix A for collection details.

^bSpecies collected: BS=bass, BG=bluegill, CF=catfish, GS=gizzard shad, CP=crappie, RS=redear sunfish, LS=long ear sunfish
For additional definitions, see the Acronyms section.

Sampling conducted by TVA were performed in accordance with the *Quality Assurance Project Plan for the Tennessee Valley Authority Kingston Ash Recovery Project* hereinafter referred to as the TVA-KIF-QAPP, the listed SOPs, field guides, and work package WP-1063. Table 2 identifies the applicable TVA documents and SOPs associated with this fish sampling. Analyses were performed by TVA's contract laboratories in accordance with the TVA-KIF-QAPP.

In 2009, field samples were shipped to Pace Analytical and ALS Laboratory for metals analysis. Percent moisture and lipid content determinations were also performed at Pace Analytical. In 2010, metals analysis was only conducted at Pace Analytical. Samples were also shipped to Frontier Global Services, Seattle, WA for metals speciation, Pace Analytical for PCBs and chlorinated pesticides, and GEL Laboratories LLC, Charleston, SC for radionuclides.

Table 2. Applicable TVA Documents and Standard Operating Procedures

Document	Document Number
TVA KIF Ash Recovery Project Quality Assurance Project Plan	TVA-KIF-QAPP
TVA-KIF Work Package: Fish Sampling	WP-1063
STANDARD OPERATION PROCEDURES:	
Fish Sampling with Gill Nets	TVA-KIF-SOP-31
Fish Sampling with Seines	TVA-KIF-SOP-32
Fish Sampling Using Boat Mounted Electro-Shocker	TVA-KIF-SOP-33
Field Documentation	TVA-KIF-SOP-06
Sample Labeling, Packing, and Shipping	TVA-KIF-SOP-07
Decontamination of Equipment	TVA-KIF-SOP-08
Field Quality Control Sampling	TVA-KIF-SOP-11
Management and Implementation of EQuISTM-Based Chain-of-Custody	TVA-KIF-SOP-18

4. ANALYTICAL DATA REVIEW

TVA's contracted laboratories were required to submit three types of deliverables: a limited (Level 1) data package containing sample results and batch quality control (QC) sample results; a fully-documented (Level 4) data package including raw data for all analyses; and electronic data deliverables (EDDs) for storage in TVA's EarthSoft EQuIS® database.

EDDs were subjected to completeness and correctness testing during loading to TVA's EQuIS database; once loaded to the EQuIS database, the data were subjected to verification. As defined in the TVA-KIF-QAPP, data verification involved comparison of the data loaded in the EQuIS database to the results reported in the Level 1 data package. In addition, data verification included review of the batch QC summary forms for compliance with the applicable methods and for data usability with respect to the project DQOs and the TVA-KIF-QAPP.

Following receipt of the Level 4 data package, data were subjected to validation. As defined in the TVA-KIF-QAPP, data validation included review of raw data and associated QC summary forms for compliance with the applicable methods and for data usability with respect to the appropriate guidance documents. As stated in the QAPP: “Initially, 100% of the chemical analysis data will be reported in full documentation data packages for independent data validation. Depending on the nature and frequency of issues identified during data validation, the percentage of data undergoing full data validation may be reduced to a lesser percentage (such as 20%) or data verification may be substituted. The reduction in full data validation may be matrix specific, laboratory specific, or analyte specific. If after the percentage of full data validation has decreased, a trend in frequency of reporting issues, method non-compliances, or data usability issues is identified, data validation will be conducted for specific data points or the percentage of full data validation percentage may be increased until the issues have been minimized to their initial frequency.” Data validation expands upon the completeness, correctness, and usability assessment performed during verification to include evaluation of instrumental QC analyses, review of sample preparation information, and recalculation of reported results from raw data.

A summary of the data review effort is presented in Table 3.

Table 3. Data Review Summary

Laboratory	Number of COCs	Number of Normal Samples by Lab ^a	Number of Equipment Blanks by Lab	Number of Analytical Results	Percentage Final-Verified	Percentage Validated
Pace Analytical (PCBs and chlorinated pesticides)	15	66	0	1,848		100%
Pace Analytical (Metals)	136	1,364		59,123	6% ^b	94%
Frontier Global Services (Metals speciation)	18	155		776		100%
GEL Laboratories (Radionuclides)	5	10		180		100%
Total Count	174	1,595*	0	61,927	-	-

Notes:

^a“Total Count” for normal samples represents the number of discrete samples sent to each lab. Each sample requiring analysis by multiple laboratories was split, and each split is counted in this table as one sample per receiving lab (“Number of Samples by Lab”).

^bEquipment blank samples were final-verified. All normal samples were validated.

5. DATA QUALITY SUMMARY

Data validation was performed based on the sample results, summary QC data, and raw data provided by the laboratory. Data validation includes a review of the following QC measures (where applicable):

- Sample condition upon laboratory receipt;
- Initial calibration linearity;
- Blank analysis results greater than the MDL;
- Sample preparation and holding times;
- Initial calibration verification/continuing calibration verification standard recoveries;
- MDLs and linear ranges;
- Internal standard recoveries;
- Percent moisture;
- Matrix spike/matrix spike duplicate;
- Laboratory and field duplicate precision;
- Quantitation of positive results;
- Laboratory control sample/laboratory control sample duplicate recoveries and precision;
- Analytical sequence;
- Reporting limit standard recoveries (metals only);
- Serial dilutions (metals only);
- Post-digestion spike/post-digestion spike recoveries and precision (metals only);
- Internal standard recoveries;
- Background checks (radionuclides only);
- Efficiency checks (radionuclides only);
- Chemical yields (radionuclides only);
- Centroid checks (radionuclides only);
- Resolution checks (radionuclides only);
- Retention times (organics only);
- Dual analytical column precision (organics only);
- Dichlorodiphenyltrichloroethane (DDT) /endrin breakdown (organics only)
- Surrogate recoveries (organics only);
- Inductively coupled plasma interference check standard results (metals only);
- Quantitation of positive results;
- MDL verification standards (metals only); and
- Standard reference material recoveries (metals only).

The data met the DQOs defined for this task and are acceptable for use. Table 4 summarizes the data quality based on the review performed and as compared to the data quality measures identified in the TVA-KIF-QAPP. The text of the data validation reports for the samples included in this TM will be included in the EE/CA Report.

Table 4. Summary of Fish Data Quality

Matrix	Analytical Results (Total Count)	Acceptable (No Qualification) ^a		Acceptable (Estimated) ^b		Blank Qualified ^c		Rejected ^d	
Pace Analytical (PCBs and chlorinated pesticides)	1848	1641	89%	207	11%	0	0%	0	0%
Pace Analytical (Metals)	59,123	39,696	67%	15,709	27%	2,498	4%	1,220	2% ^e
Frontier Global Services (Metals speciation)	776	145	19%	510	66%	121	15%	0	0%
GEL Laboratories (Radionuclides)	180	180	100%	0	0%	0	0%	0	0%

Notes:

^aAcceptable, No Qualification – Qualification of data was not warranted based on a review of the applicable QC measures.

^bAcceptable, Estimated – Quantitation or detection limit is approximate due to limitations or bias identified during a review of the applicable QC measures.

^cBlank Qualified – Result is considered “not-detected” because it was detected in an associated blank at a similar level.

^dRejected – Unreliable result or detection limit; analyte may or may not be present in sample.

^eRejected results are percent moisture results qualified as unusable due to limited sample mass and/or extended frozen storage prior to moisture determination. Additionally, the baseline fish were reanalyzed >2x after the holding expired, accordingly, the “not-detected” results have been rejected due to National Functional Guideline criteria.

6. DATA SUMMARY

Summary statistics for fish are provided in Appendices B through L for each sampling event, location, species, and body part collected in 2009 and 2010. Rejected percent moisture results were due to small sample sizes and uncertainty in holding times; as a result, the data for each species are presented in wet weight until the percent moistures issues have been clarified.

Figures

Figure 1. Field Crew on Electroshocking Boat



Figure 2. Field Crew Evaluating Bluegill



Figure 3. Field Crew Filleting Catfish



Figure 4. Field Crew Collecting Blood Sample



APPENDIX A

Summary of Fish Sampling Collections

Baseline Fish, Spring 2009		
Months of Collections: January, February, and April 2009		
ERM Locations	Species	Body Part
ERM 0.5	blue catfish	fillet
	channel catfish	fillet
	largemouth bass	fillet
ERM 8.0	channel catfish	fillet
	largemouth bass	fillet
CRM Locations	Species	Body Part
CRM 1.5	channel catfish	fillet
	spotted bass	fillet
	largemouth bass	fillet
CRM 9.5	blue catfish	fillet
	channel catfish	fillet
	largemouth bass	fillet

TDEC Special Request I, Spring 2009		
Month of Collections: March 2009		
ERM Locations	Species	Body Part
ERM 3.0	largemouth bass	whole body
	red ear sunfish	whole body

TDEC Special Request II, Spring 2009		
Months of Collections: April and May 2009		
ERM Locations	Species	Body Part
ERM 0.9	black crappie	whole body
ERM 2.0	black crappie	whole body
ERM 8.0	black crappie	whole body
CRM Locations	Species	Body Part
CRM 8.0	black crappie	whole body

TVA Sampling, Spring 2009		
Months of Collections: April, May, June, and July 2009		
ERM Locations	Species	Body Part
ERM 0.9	bluegill	fillet
	largemouth bass	fillet
	white crappie	fillet
	gizzard shad	whole body

TVA Sampling, Spring 2009		
Months of Collections: April, May, June, and July 2009		
CRM Locations	Species	Body Part
ERM 3.0	bluegill	fillet
	largemouth bass	fillet
	white crappie	fillet
	black crappie	fillet
	gizzard shad	whole body
ERM 8.0	bluegill	fillet
	largemouth bass	fillet
	white crappie	fillet
	gizzard shad	whole body
CRM 1.5	bluegill	fillet
	largemouth bass	fillet
	white crappie	fillet
	gizzard shad	whole body
CRM 7.0	gizzard shad	whole body
CRM 8.0	bluegill	fillet
	largemouth bass	fillet
	white crappie	fillet

TWRA Special Request, Summer 2009		
Months of Collections: June and July 2009		
ERM Locations	Species	Body Part
ERM 0.7	channel catfish	whole body, ovary
ERM 1.0	largemouth bass	whole body
ERM 6.0	blue catfish	whole body
	channel catfish	whole body, ovary
	largemouth bass	whole body

TVA Swan Pond Embayment Sampling, Summer 2009		
Month of Collections: June 2009		
Other Locations	Species	Body Part
EEMBAY	bluegill	whole body, whole body (minus gut)
	largemouth bass	whole body (minus gut)
	red ear sunfish	whole body, whole body (minus gut)
	gizzard shad	whole body

TVA Sampling, Fall 2009		
Months of Collections: September, October, and November 2009		
ERM Locations	Species	Body Part
ERM 0.9	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
ERM 2.0	gizzard shad	whole body
	largemouth bass	carcass
ERM 2.5	gizzard shad	whole body
ERM 3.0	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
ERM 8.0	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
CRM Locations	Species	Body Part
CRM 1.5	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
	gizzard shad	whole body
CRM 8.0	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
	gizzard shad	whole body
CRM 25.0	bluegill	fillet, carcass
	channel catfish	fillet
	largemouth bass	fillet, carcass
	gizzard shad	whole body
Other Locations	Species	Body Part
EEMBAY	gizzard shad	whole body
	threadfin shad	whole body
LERM 2.0	bluegill	fillet, carcass
	largemouth bass	fillet, carcass

Tennessee Aquarium / Appalachian State University (Splits), Winter 2010
Month of Collections: January 2010

CRM Locations	Species	Body Part
CRM 3.5	largemouth bass	fillet, liver, ovary
	red ear sunfish	fillet
	gizzard shad	fillet, whole body
CRM 5.5	largemouth bass	fillet, liver, ovary
	long ear sunfish	whole body
	red ear sunfish	fillet
Other Locations	Species	Body Part
TRM 567.0	black crappie	fillet, liver, ovary
	white crappie	fillet, ovary
	bluegill	whole body
	largemouth bass	fillet, liver, ovary
	long ear sunfish	whole body
	red ear sunfish	fillet

TVA SAP Sampling, Spring 2010
Months of Collections: April, May, June, and July 2010

ERM Locations	Species	Body Part
ERM 0.9	white crappie	fillet
	bluegill	whole body, fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet, carcass
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
ERM 2.0	bluegill	whole body
	channel catfish	fillet, carcass
ERM 3.0	white crappie	fillet
	bluegill	fillet, carcass
	largemouth bass	fillet, carcass
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
ERM 4.5	bluegill	whole body, fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet, carcass
	gizzard shad	whole body, whole body (minus gut content), gut & gut content

TVA SAP Sampling, Spring 2010 Months of Collections: April, May, June, and July 2010		
ERM 8.0	white crappie	fillet
	bluegill	whole body, fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet, carcass
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
CRM Locations	Species	Body Part
CRM 1.5	white crappie	fillet
	bluegill	whole body, fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet, carcass
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
CRM 3.5	bluegill	whole body, fillet, carcass
	channel catfish	carcass, fillet
	largemouth bass	fillet, carcass
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
CRM 8.0	white crappie	fillet
	bluegill	whole body, fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	carcass, fillet
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
CRM 25.0	bluegill	carcass, fillet
	largemouth bass	carcass, fillet
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content
Other Locations	Species	Body Part
LERM 2.0	white crappie	fillet
	bluegill	fillet, carcass
	largemouth bass	fillet, carcass
	red ear sunfish	fillet
	gizzard shad	whole body, whole body (minus gut content), gut & gut content

Tennessee Aquarium / Appalachian State University (Splits), Fall 2010
Month of Collections: September 2010

ERM Locations	Species	Body Part
ERM 2.0	largemouth bass	fillet
ERM 3.5	largemouth bass	fillet
	red ear sunfish	fillet
CRM Locations	Species	Body Part
CRM 5.5	largemouth bass	fillet
	red ear sunfish	fillet

TVA SAP Sampling, Fall 2010
Months of Collections: September, October, and December 2010 and January 2011

ERM Locations	Species	Body Part
ERM 0.9	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet
	gizzard shad	whole body (minus gut), gut & gut content
ERM 2.5	gizzard shad	whole body, whole body (minus gut), gut & gut content
ERM 3.0	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet
ERM 4.5	bluegill	fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet, carcass
	gizzard shad	whole body, whole body (minus gut), gut & gut content
ERM 8.0	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet
	gizzard shad	whole body (minus gut), gut & gut content
CRM Locations	Species	Body Part
CRM 1.5	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet
	gizzard shad	whole body, whole body (minus gut), gut & gut content
CRM 3.5	bluegill	fillet, carcass
	channel catfish	fillet, carcass
	largemouth bass	fillet
	gizzard shad	whole body, whole body (minus gut), gut & gut content

TVA SAP Sampling, Fall 2010		
Months of Collections: September, October, and December 2010 and January 2011		
Other Locations	Species	Body Part
CRM 8.0	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet
	gizzard shad	whole body, whole body (minus gut), gut & gut content
LERM 2.0	bluegill	fillet
	channel catfish	fillet
	largemouth bass	fillet

APPENDIX B

Baseline Fish, Spring 2009

Table B- 1: Baseline Fish, Spring 2009 - Blue Catfish Fillet at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 25.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	0.11	0.7	2 / 5	0.405
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg	99.4 / 99.4	ND	152	6350	4 / 5	1804
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.1	0.16	2 / 5	0.13
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.62	0.62	1 / 5	0.62
Inorganic	Iron	mg/kg	24.9 / 25.1	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	0.14	0.14	1 / 5	0.14
Inorganic	Magnesium	mg/kg		201	201	276	5 / 5	220
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.63	5.7	2 / 5	3.165
Inorganic	Mercury	mg/kg	0.02 / 0.039	ND	0.048	0.09	4 / 5	0.06225
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2750	2750	3030	5 / 5	2926
Inorganic	Selenium	mg/kg		0.21	0.21	0.45	5 / 5	0.328
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		358	358	448	5 / 5	390.2
Inorganic	Strontium	mg/kg		0.1	0.1	5	5 / 5	1.176
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		5.2	5.2	12.2	5 / 5	8
Physical Properties	% Lipids	%		0.98	0.98	10.1	5 / 5	3.876
Physical Properties	% Moisture	%		70.9	70.9	70.9	1 / 1	70.9

Notes:

Grab sample results are presented in wet weight..

For definitions, see the Acronyms section.

Table B- 2: Baseline Fish, Spring 2009 - Blue Catfish Fillet at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.8 / 24.9	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Barium	mg/kg	0.099 / 0.099	ND	0.11	0.11	2 / 5	0.11
Inorganic	Beryllium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		101	101	1340	5 / 5	595.6
Inorganic	Chromium	mg/kg	0.099 / 0.099	ND	0.13	0.13	1 / 5	0.13
Inorganic	Cobalt	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 5	0
Inorganic	Iron	mg/kg	24.8 / 24.9	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		201	201	218	5 / 5	210.6
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.69	0.86	2 / 5	0.775
Inorganic	Mercury	mg/kg		0.066	0.066	0.18	5 / 5	0.1008
Inorganic	Molybdenum	mg/kg	0.99 / 0.99	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.099	ND	0.55	0.55	1 / 5	0.55
Inorganic	Potassium	mg/kg		3320	3320	3580	5 / 5	3458
Inorganic	Selenium	mg/kg	0.2 / 0.2	ND	0.21	0.25	2 / 5	0.23
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		425	425	472	5 / 5	447
Inorganic	Strontium	mg/kg	0.099 / 0.099	ND	0.11	1.1	4 / 5	0.585
Inorganic	Thallium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		5.9	5.9	9.2	5 / 5	7.34
Physical Properties	% Lipids	%		0.2	0.2	1	5 / 5	0.638
Physical Properties	% Moisture	%		80.5	80.5	82.3	3 / 3	81.3

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 3: Baseline Fish, Spring 2009 - Channel Catfish Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.8 / 25.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	0.12	0.12	1 / 6	0.12
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg	99.2 / 100	ND	103	113	2 / 6	108
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.12	0.43	4 / 6	0.2075
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.57	0.57	1 / 6	0.57
Inorganic	Iron	mg/kg	24.8 / 25.1	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		171	171	213	6 / 6	192.2
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.026	0.026	0.21	6 / 6	0.09783
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	0.21	0.21	1 / 6	0.21
Inorganic	Potassium	mg/kg		2880	2880	3450	6 / 6	3197
Inorganic	Selenium	mg/kg	0.2 / 0.2	ND	0.21	0.3	4 / 6	0.26
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		284	284	367	6 / 6	310.7
Inorganic	Strontium	mg/kg	0.099 / 0.1	ND	0.14	0.16	3 / 6	0.1467
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.2	4.2	8	6 / 6	6.1
Physical Properties	% Lipids	%		1.5	1.5	4	6 / 6	2.933
Physical Properties	% Moisture	%		80.1	80.1	80.2	3 / 3	80.17

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 4: Baseline Fish, Spring 2009 - Channel Catfish Fillet at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	25 / 25.1	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Barium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		116	116	220	4 / 4	170
Inorganic	Chromium	mg/kg	0.1 / 0.1	ND	0.11	0.12	3 / 4	0.1133
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 4	0
Inorganic	Iron	mg/kg	25 / 25.1	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		169	169	206	4 / 4	185
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.65	0.65	1 / 4	0.65
Inorganic	Mercury	mg/kg		0.034	0.034	0.054	4 / 4	0.04475
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		2770	2770	3410	4 / 4	3155
Inorganic	Selenium	mg/kg		0.24	0.24	0.43	4 / 4	0.2975
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		331	331	454	4 / 4	406.8
Inorganic	Strontium	mg/kg		0.12	0.12	0.26	4 / 4	0.1975
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		5.6	5.6	8.2	4 / 4	6.75
Physical Properties	% Lipids	%		0.51	0.51	2	4 / 4	1.125
Physical Properties	% Moisture	%		81.7	81.7	81.7	1 / 1	81.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 5: Baseline Fish, Spring 2009 - Channel Catfish Fillet at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 24.9	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	0.16	0.16	2 / 4	0.16
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg	99.4 / 99.6	ND	346	1190	3 / 4	731.3
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.16	0.17	2 / 4	0.165
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.56	1.1	2 / 4	0.83
Inorganic	Iron	mg/kg	24.9 / 24.9	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		189	189	227	4 / 4	216.5
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.55	0.85	2 / 4	0.7
Inorganic	Mercury	mg/kg		0.049	0.049	0.1	4 / 4	0.06575
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		3470	3470	4040	4 / 4	3710
Inorganic	Selenium	mg/kg	0.2 / 0.2	ND	0.24	0.25	2 / 4	0.245
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		359	359	505	4 / 4	414.5
Inorganic	Strontium	mg/kg	0.099 / 0.1	ND	0.29	1	3 / 4	0.6067
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		5.2	5.2	6.3	4 / 4	5.9
Physical Properties	% Lipids	%		2.6	2.6	4.5	4 / 4	3.55

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 6: Baseline Fish, Spring 2009 - Channel Catfish Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		157	157	779	5 / 5	337
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.1	0.12	3 / 5	0.1067
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.51	0.57	3 / 5	0.5367
Inorganic	Iron	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	0.16	0.16	1 / 5	0.16
Inorganic	Magnesium	mg/kg		181	181	248	5 / 5	216.2
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.55	0.55	1 / 5	0.55
Inorganic	Mercury	mg/kg		0.028	0.028	0.22	5 / 5	0.0724
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3150	3150	3730	5 / 5	3406
Inorganic	Selenium	mg/kg	0.2 / 0.2	ND	0.33	0.51	4 / 5	0.39
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		333	333	450	5 / 5	401.8
Inorganic	Strontium	mg/kg	0.099 / 0.1	ND	0.16	0.77	4 / 5	0.35
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		5.4	5.4	7.3	5 / 5	6.5
Physical Properties	% Lipids	%		1.4	1.4	5.1	5 / 5	2.7
Physical Properties	% Moisture	%		72.2	72.2	80.1	2 / 2	76.15

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 7: Baseline Fish, Spring 2009 - Largemouth Bass Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.8 / 25	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	0.12	0.15	2 / 6	0.135
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg	99.2 / 99.2	ND	100	1070	4 / 6	507
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.11	0.31	4 / 6	0.165
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.75	0.75	1 / 6	0.75
Inorganic	Iron	mg/kg	24.8 / 25	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		252	252	266	6 / 6	256.8
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.078	0.078	0.13	6 / 6	0.1017
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	0.13	0.13	1 / 6	0.13
Inorganic	Potassium	mg/kg		3420	3420	3780	6 / 6	3640
Inorganic	Selenium	mg/kg		0.33	0.33	0.51	6 / 6	0.4183
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		297	297	400	6 / 6	362.5
Inorganic	Strontium	mg/kg	0.099 / 0.1	ND	0.61	1	2 / 6	0.805
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.8	4.8	13.5	6 / 6	8.05
Physical Properties	% Lipids	%		0.36	0.36	1.2	6 / 6	0.8433
Physical Properties	% Moisture	%		79.2	79.2	79.4	2 / 2	79.3

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 8: Baseline Fish, Spring 2009 - Largemouth Bass Fillet at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.8 / 25.2	ND	ND	ND	0 / 8	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg		0.16	0.16	0.23	8 / 8	0.2013
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	0.12	0.16	2 / 8	0.14
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 8	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Calcium	mg/kg		135	135	6300	8 / 8	1414
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.1	0.24	6 / 8	0.1383
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.51	0.65	3 / 8	0.56
Inorganic	Iron	mg/kg	24.8 / 25.2	ND	ND	ND	0 / 8	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Magnesium	mg/kg		222	222	358	8 / 8	271
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	1.2	1.2	1 / 8	1.2
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	0.023	0.08	7 / 8	0.04314
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 8	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Potassium	mg/kg		3040	3040	3630	8 / 8	3470
Inorganic	Selenium	mg/kg		0.45	0.45	0.74	8 / 8	0.63
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		360	360	475	8 / 8	421.1
Inorganic	Strontium	mg/kg	0.099 / 0.1	ND	0.12	4.1	7 / 8	1.156
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 8	0
Inorganic	Zinc	mg/kg		6.9	6.9	13.5	8 / 8	9.788
Physical Properties	% Lipids	%		0.47	0.47	3.5	8 / 8	2.021
Physical Properties	% Moisture	%		77.1	77.1	77.1	1 / 1	77.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B- 9: Baseline Fish, Spring 2009 - Largemouth Bass Fillet at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.8 / 25.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.099 / 0.12	ND	0.18	0.3	4 / 5	0.2475
Inorganic	Barium	mg/kg	0.099 / 0.1	ND	0.14	0.21	2 / 5	0.175
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		355	355	7440	5 / 5	2852
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	0.11	0.14	3 / 5	0.12
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 5	0
Inorganic	Iron	mg/kg	24.8 / 25.1	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		254	254	374	5 / 5	302
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	1	1	1 / 5	1
Inorganic	Mercury	mg/kg	0.02 / 0.037	ND	0.051	0.18	4 / 5	0.1013
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3250	3250	3620	5 / 5	3458
Inorganic	Selenium	mg/kg		0.5	0.5	0.59	5 / 5	0.552
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		426	426	614	5 / 5	528
Inorganic	Strontium	mg/kg		0.27	0.27	5.6	5 / 5	2.222
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		7.4	7.4	12.6	5 / 5	9.7
Physical Properties	% Lipids	%		1.2	1.2	2.4	5 / 5	1.74
Physical Properties	% Moisture	%		77	77	77.7	3 / 3	77.33

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-10: Baseline Fish, Spring 2009 - Largemouth Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 25	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.15	0.15	0.27	4 / 4	0.22
Inorganic	Barium	mg/kg	0.1 / 0.1	ND	0.12	0.16	2 / 4	0.14
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		1040	1040	4530	4 / 4	2695
Inorganic	Chromium	mg/kg	0.1 / 0.1	ND	0.18	0.24	3 / 4	0.2033
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 4	0
Inorganic	Iron	mg/kg	24.9 / 25	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		282	282	324	4 / 4	299
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	0.9	0.9	1 / 4	0.9
Inorganic	Mercury	mg/kg	0.022 / 0.045	ND	ND	ND	0 / 4	0
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.1 / 0.1	ND	0.12	0.12	1 / 4	0.12
Inorganic	Potassium	mg/kg		3210	3210	3670	4 / 4	3448
Inorganic	Selenium	mg/kg		0.36	0.36	0.43	4 / 4	0.405
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		413	413	507	4 / 4	466.3
Inorganic	Strontium	mg/kg		0.79	0.79	3.9	4 / 4	2.348
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		7.2	7.2	9.8	4 / 4	8.625
Physical Properties	% Lipids	%		1.2	1.2	2.4	4 / 4	1.65
Physical Properties	% Moisture	%		76.5	76.5	77.4	3 / 3	76.93

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-11: Baseline Fish, Spring 2009 - Spotted Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 24.9	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.24	0.24	0.24	1 / 1	0.24
Inorganic	Barium	mg/kg		0.2	0.2	0.2	1 / 1	0.2
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		6670	6670	6670	1 / 1	6670
Inorganic	Chromium	mg/kg		0.1	0.1	0.1	1 / 1	0.1
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg	24.9 / 24.9	ND	ND	ND	0 / 1	0
Inorganic	Lead	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Magnesium	mg/kg		332	332	332	1 / 1	332
Inorganic	Manganese	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 1	0
Inorganic	Mercury	mg/kg		0.071	0.071	0.071	1 / 1	0.071
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		3260	3260	3260	1 / 1	3260
Inorganic	Selenium	mg/kg		0.4	0.4	0.4	1 / 1	0.4
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		577	577	577	1 / 1	577
Inorganic	Strontium	mg/kg		5.7	5.7	5.7	1 / 1	5.7
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		8.1	8.1	8.1	1 / 1	8.1
Physical Properties	% Lipids	%		4.3	4.3	4.3	1 / 1	4.3
Physical Properties	% Moisture	%		71.7	71.7	71.7	1 / 1	71.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-12: Baseline Fish, Spring 2009 - Blue Catfish Fillet (Reanalyzed) at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.2	5.2	7.9	4 / 4	7
Inorganic	Arsenic	mg/kg		0.029	0.029	0.11	5 / 5	0.058
Inorganic	Barium	mg/kg		0.082	0.082	0.29	4 / 4	0.1955
Inorganic	Cadmium	mg/kg	0.03 / 0.03	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		108	108	3050	5 / 5	1194
Inorganic	Chromium	mg/kg		0.17	0.17	0.37	2 / 2	0.27
Inorganic	Cobalt	mg/kg		0.018	0.018	0.028	2 / 2	0.023
Inorganic	Copper	mg/kg		0.25	0.25	4.2	5 / 5	1.576
Inorganic	Lead	mg/kg		0.03	0.03	0.043	3 / 3	0.03667
Inorganic	Magnesium	mg/kg		223	223	285	5 / 5	245.8
Inorganic	Manganese	mg/kg		0.16	0.16	3	5 / 5	1.472
Inorganic	Mercury	mg/kg		0.053	0.053	0.11	5 / 5	0.0736
Inorganic	Nickel	mg/kg		0.1	0.1	0.26	2 / 2	0.18
Inorganic	Potassium	mg/kg		3090	3090	3410	5 / 5	3306
Inorganic	Selenium	mg/kg		0.26	0.26	0.47	5 / 5	0.368
Inorganic	Silver	mg/kg	0.0073 / 0.0073	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		349	349	463	5 / 5	404.6
Inorganic	Strontium	mg/kg		0.096	0.096	1.7	5 / 5	0.8512
Inorganic	Vanadium	mg/kg		0.05	0.05	0.14	2 / 2	0.095
Inorganic	Zinc	mg/kg		5.4	5.4	10.4	5 / 5	7.68

Notes:

Grab sample results are presented in wet weight..

For definitions, see the Acronyms section.

Table B-13: Baseline Fish, Spring 2009 - Blue Catfish Fillet (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.03	0.03	0.069	2 / 2	0.0495
Inorganic	Barium	mg/kg		0.061	0.061	0.18	4 / 4	0.1453
Inorganic	Cadmium	mg/kg	0.028 / 0.049	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		307	307	3300	5 / 5	1614
Inorganic	Chromium	mg/kg		0.44	0.44	0.44	1 / 1	0.44
Inorganic	Cobalt	mg/kg		0.02	0.02	0.035	2 / 2	0.0275
Inorganic	Copper	mg/kg		0.31	0.31	2.5	5 / 5	0.77
Inorganic	Lead	mg/kg		0.046	0.046	0.081	3 / 3	0.06233
Inorganic	Magnesium	mg/kg		221	221	287	5 / 5	251.8
Inorganic	Manganese	mg/kg		0.31	0.31	1.7	5 / 5	1.034
Inorganic	Mercury	mg/kg		0.082	0.082	0.23	5 / 5	0.1302
Inorganic	Nickel	mg/kg		0.2	0.2	0.23	2 / 2	0.215
Inorganic	Potassium	mg/kg		3790	3790	4040	5 / 5	3888
Inorganic	Selenium	mg/kg		0.22	0.22	0.36	5 / 5	0.254
Inorganic	Sodium	mg/kg		448	448	545	5 / 5	491.6
Inorganic	Strontium	mg/kg		0.23	0.23	2.2	5 / 5	1.236
Inorganic	Vanadium	mg/kg		0.068	0.068	0.068	1 / 1	0.068
Inorganic	Zinc	mg/kg		7.3	7.3	13.6	5 / 5	9.94

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-14: Baseline Fish, Spring 2009 - Channel Catfish Fillet (Reanalyzed) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		7.5	7.5	9.7	2 / 2	8.6
Inorganic	Arsenic	mg/kg		0.028	0.028	0.045	3 / 3	0.03533
Inorganic	Barium	mg/kg		0.043	0.043	0.05	2 / 2	0.0465
Inorganic	Cadmium	mg/kg		0.018	0.018	0.018	1 / 1	0.018
Inorganic	Calcium	mg/kg		67.3	67.3	83.6	6 / 6	75.22
Inorganic	Cobalt	mg/kg		0.018	0.018	0.018	1 / 1	0.018
Inorganic	Copper	mg/kg		0.25	0.25	1.3	6 / 6	0.575
Inorganic	Iron	mg/kg		35.9	35.9	35.9	1 / 1	35.9
Inorganic	Lead	mg/kg		0.029	0.029	0.029	1 / 1	0.029
Inorganic	Magnesium	mg/kg		202	202	254	6 / 6	223.8
Inorganic	Manganese	mg/kg		0.16	0.16	0.27	6 / 6	0.2033
Inorganic	Mercury	mg/kg		0.044	0.044	0.24	6 / 6	0.1248
Inorganic	Nickel	mg/kg		0.091	0.091	0.2	3 / 3	0.1337
Inorganic	Potassium	mg/kg		3080	3080	4030	6 / 6	3532
Inorganic	Selenium	mg/kg		0.2	0.2	0.37	6 / 6	0.2933
Inorganic	Sodium	mg/kg		297	297	353	6 / 6	327.7
Inorganic	Strontium	mg/kg		0.056	0.056	0.091	6 / 6	0.07067
Inorganic	Zinc	mg/kg		5.1	5.1	8.3	6 / 6	6.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-15: Baseline Fish, Spring 2009 - Channel Catfish Fillet (Reanalyzed) at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.6	5.6	7	2 / 2	6.3
Inorganic	Arsenic	mg/kg		0.039	0.039	0.039	1 / 1	0.039
Inorganic	Barium	mg/kg		0.062	0.062	0.18	3 / 3	0.1027
Inorganic	Cadmium	mg/kg		0.0085	0.0085	0.0085	1 / 1	0.0085
Inorganic	Calcium	mg/kg		192	192	1730	4 / 4	763
Inorganic	Copper	mg/kg		0.28	0.28	4.5	4 / 4	1.353
Inorganic	Lead	mg/kg		0.027	0.027	0.036	2 / 2	0.0315
Inorganic	Magnesium	mg/kg		220	220	280	4 / 4	238.8
Inorganic	Manganese	mg/kg		0.38	0.38	1.3	4 / 4	0.65
Inorganic	Mercury	mg/kg		0.055	0.055	0.11	4 / 4	0.07325
Inorganic	Nickel	mg/kg		0.19	0.19	0.19	1 / 1	0.19
Inorganic	Potassium	mg/kg		3230	3230	3770	4 / 4	3543
Inorganic	Selenium	mg/kg		0.29	0.29	0.54	4 / 4	0.3775
Inorganic	Sodium	mg/kg		344	344	492	4 / 4	418.3
Inorganic	Strontium	mg/kg		0.13	0.13	1.7	4 / 4	0.71
Inorganic	Zinc	mg/kg		5.7	5.7	8.6	4 / 4	7.05

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-16: Baseline Fish, Spring 2009 - Channel Catfish Fillet (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.9	3.9	13	2 / 2	8.45
Inorganic	Arsenic	mg/kg		0.061	0.061	0.061	1 / 1	0.061
Inorganic	Barium	mg/kg		0.043	0.043	0.46	3 / 3	0.1833
Inorganic	Calcium	mg/kg		215	215	12200	4 / 4	3267
Inorganic	Cobalt	mg/kg		0.018	0.018	0.018	1 / 1	0.018
Inorganic	Copper	mg/kg		0.34	0.34	2.5	4 / 4	0.9675
Inorganic	Lead	mg/kg		0.067	0.067	0.067	1 / 1	0.067
Inorganic	Magnesium	mg/kg		208	208	439	4 / 4	279.3
Inorganic	Manganese	mg/kg		0.21	0.21	5.8	4 / 4	1.66
Inorganic	Mercury	mg/kg		0.055	0.055	0.16	4 / 4	0.09075
Inorganic	Nickel	mg/kg		0.1	0.1	0.3	2 / 2	0.2
Inorganic	Potassium	mg/kg		3760	3760	4120	4 / 4	3940
Inorganic	Selenium	mg/kg		0.21	0.21	0.38	4 / 4	0.28
Inorganic	Sodium	mg/kg		376	376	660	4 / 4	483
Inorganic	Strontium	mg/kg		0.14	0.14	8.3	4 / 4	2.248
Inorganic	Vanadium	mg/kg		0.061	0.061	0.061	1 / 1	0.061
Inorganic	Zinc	mg/kg		6	6	17.3	4 / 4	9.025

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-17: Baseline Fish, Spring 2009 - Channel Catfish Fillet (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		4.3	4.3	4.3	1 / 1	4.3
Inorganic	Arsenic	mg/kg		0.031	0.031	0.052	3 / 3	0.04033
Inorganic	Barium	mg/kg		0.048	0.048	0.19	5 / 5	0.0984
Inorganic	Cadmium	mg/kg		0.0086	0.0086	0.0086	1 / 1	0.0086
Inorganic	Calcium	mg/kg		194	194	1930	5 / 5	983.4
Inorganic	Cobalt	mg/kg		0.014	0.014	0.014	1 / 1	0.014
Inorganic	Copper	mg/kg		0.28	0.28	1.6	5 / 5	0.6
Inorganic	Lead	mg/kg		0.032	0.032	0.032	1 / 1	0.032
Inorganic	Magnesium	mg/kg		220	220	278	5 / 5	256.4
Inorganic	Manganese	mg/kg		0.3	0.3	1.4	5 / 5	0.724
Inorganic	Mercury	mg/kg		0.032	0.032	0.36	5 / 5	0.1102
Inorganic	Potassium	mg/kg		3580	3580	4280	5 / 5	3834
Inorganic	Selenium	mg/kg		0.24	0.24	0.54	5 / 5	0.394
Inorganic	Sodium	mg/kg		333	333	536	5 / 5	430.4
Inorganic	Strontium	mg/kg		0.14	0.14	1.5	5 / 5	0.774
Inorganic	Vanadium	mg/kg		0.05	0.05	0.05	1 / 1	0.05
Inorganic	Zinc	mg/kg		7.2	7.2	10.2	5 / 5	8.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-18: Baseline Fish, Spring 2009 - Largemouth Bass Fillet (Reanalyzed) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		4.1	4.1	4.1	1 / 1	4.1
Inorganic	Arsenic	mg/kg		0.032	0.032	0.22	6 / 6	0.1287
Inorganic	Barium	mg/kg		0.089	0.089	0.089	1 / 1	0.089
Inorganic	Calcium	mg/kg		106	106	1730	6 / 6	434.5
Inorganic	Copper	mg/kg		0.2	0.2	0.53	6 / 6	0.31
Inorganic	Magnesium	mg/kg		265	265	318	6 / 6	292.3
Inorganic	Manganese	mg/kg		0.31	0.31	0.31	1 / 1	0.31
Inorganic	Mercury	mg/kg		0.11	0.11	0.18	6 / 6	0.1317
Inorganic	Nickel	mg/kg		0.091	0.091	0.091	1 / 1	0.091
Inorganic	Potassium	mg/kg		3730	3730	4260	6 / 6	4070
Inorganic	Selenium	mg/kg		0.39	0.39	0.6	6 / 6	0.4617
Inorganic	Sodium	mg/kg		291	291	455	6 / 6	368
Inorganic	Strontium	mg/kg		0.045	0.045	1.4	5 / 5	0.362
Inorganic	Vanadium	mg/kg		0.046	0.046	0.046	1 / 1	0.046
Inorganic	Zinc	mg/kg		5.8	5.8	15.4	6 / 6	9.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-19: Baseline Fish, Spring 2009 - Largemouth Bass Fillet (Reanalyzed) at Emory River Mile 0.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		7.6	7.6	9.5	3 / 3	8.6
Inorganic	Arsenic	mg/kg		0.21	0.21	0.33	8 / 8	0.2675
Inorganic	Barium	mg/kg		0.06	0.06	0.14	5 / 5	0.0852
Inorganic	Calcium	mg/kg		141	141	2990	8 / 8	1320
Inorganic	Copper	mg/kg		0.27	0.27	6.8	8 / 8	1.709
Inorganic	Lead	mg/kg		0.03	0.03	0.03	1 / 1	0.03
Inorganic	Magnesium	mg/kg		289	289	357	8 / 8	319.9
Inorganic	Manganese	mg/kg		0.21	0.21	0.87	6 / 6	0.3717
Inorganic	Mercury	mg/kg		0.024	0.024	0.099	8 / 8	0.05113
Inorganic	Nickel	mg/kg		0.099	0.099	0.099	1 / 1	0.099
Inorganic	Potassium	mg/kg		3790	3790	4190	8 / 8	4035
Inorganic	Selenium	mg/kg		0.55	0.55	0.88	8 / 8	0.7525
Inorganic	Sodium	mg/kg		366	366	605	8 / 8	458.6
Inorganic	Strontium	mg/kg		0.073	0.073	2.6	8 / 8	1.06
Inorganic	Thallium	mg/kg	0.013 / 0.018	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		8.6	8.6	13.9	8 / 8	11.44

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-20: Baseline Fish, Spring 2009 - Largemouth Bass Fillet (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.16	0.16	0.36	5 / 5	0.288
Inorganic	Barium	mg/kg		0.069	0.069	0.14	5 / 5	0.1002
Inorganic	Calcium	mg/kg		1870	1870	3590	5 / 5	2718
Inorganic	Copper	mg/kg		0.29	0.29	2.1	5 / 5	0.682
Inorganic	Magnesium	mg/kg		313	313	353	5 / 5	330.4
Inorganic	Manganese	mg/kg		0.25	0.25	0.36	5 / 5	0.318
Inorganic	Mercury	mg/kg		0.04	0.04	0.21	5 / 5	0.1044
Inorganic	Nickel	mg/kg		0.17	0.17	0.17	1 / 1	0.17
Inorganic	Potassium	mg/kg		3760	3760	4140	5 / 5	3934
Inorganic	Selenium	mg/kg		0.59	0.59	0.68	5 / 5	0.634
Inorganic	Sodium	mg/kg		519	519	587	5 / 5	543
Inorganic	Strontium	mg/kg		1.3	1.3	3.1	5 / 5	2.14
Inorganic	Thallium	mg/kg	0.016 / 0.016	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		11.1	11.1	14.1	5 / 5	12.42

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-21: Baseline Fish, Spring 2009 - Largemouth Bass Fillet (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.23	0.23	0.35	4 / 4	0.27
Inorganic	Barium	mg/kg		0.044	0.044	0.14	3 / 3	0.08767
Inorganic	Calcium	mg/kg		601	601	3710	4 / 4	1683
Inorganic	Copper	mg/kg		0.33	0.33	0.38	4 / 4	0.3575
Inorganic	Magnesium	mg/kg		282	282	362	4 / 4	314
Inorganic	Manganese	mg/kg		0.18	0.18	0.72	4 / 4	0.3475
Inorganic	Mercury	mg/kg		0.022	0.022	0.057	4 / 4	0.03975
Inorganic	Potassium	mg/kg		3800	3800	4230	4 / 4	4028
Inorganic	Selenium	mg/kg		0.4	0.4	0.56	4 / 4	0.47
Inorganic	Sodium	mg/kg		453	453	522	4 / 4	490.3
Inorganic	Strontium	mg/kg		0.45	0.45	3	4 / 4	1.363
Inorganic	Zinc	mg/kg		9	9	13.3	4 / 4	10.75

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-22: Baseline Fish, Spring 2009 - Spotted Bass Fillet (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.2	5.2	5.2	1 / 1	5.2
Inorganic	Arsenic	mg/kg		0.31	0.31	0.31	1 / 1	0.31
Inorganic	Barium	mg/kg		0.13	0.13	0.13	1 / 1	0.13
Inorganic	Calcium	mg/kg		2580	2580	2580	1 / 1	2580
Inorganic	Copper	mg/kg		0.4	0.4	0.4	1 / 1	0.4
Inorganic	Magnesium	mg/kg		299	299	299	1 / 1	299
Inorganic	Manganese	mg/kg		0.29	0.29	0.29	1 / 1	0.29
Inorganic	Mercury	mg/kg		0.087	0.087	0.087	1 / 1	0.087
Inorganic	Nickel	mg/kg		0.12	0.12	0.12	1 / 1	0.12
Inorganic	Potassium	mg/kg		3890	3890	3890	1 / 1	3890
Inorganic	Selenium	mg/kg		0.44	0.44	0.44	1 / 1	0.44
Inorganic	Sodium	mg/kg		552	552	552	1 / 1	552
Inorganic	Strontium	mg/kg		2.3	2.3	2.3	1 / 1	2.3
Inorganic	Zinc	mg/kg		11.1	11.1	11.1	1 / 1	11.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-23: Baseline Fish, Spring 2009 - Blue Catfish Fillet Homogenate (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.036	0.036	0.051	2 / 2	0.0435
Inorganic	Barium	mg/kg		0.046	0.046	0.13	4 / 4	0.07925
Inorganic	Cadmium	mg/kg		0.013	0.013	0.013	1 / 1	0.013
Inorganic	Calcium	mg/kg		149	149	1480	5 / 5	653
Inorganic	Chromium	mg/kg		0.19	0.19	0.19	1 / 1	0.19
Inorganic	Cobalt	mg/kg		0.016	0.016	0.022	3 / 3	0.01933
Inorganic	Copper	mg/kg		0.32	0.32	0.51	5 / 5	0.382
Inorganic	Lead	mg/kg		0.029	0.029	0.029	1 / 1	0.029
Inorganic	Magnesium	mg/kg		203	203	237	5 / 5	225.6
Inorganic	Manganese	mg/kg		0.27	0.27	0.98	5 / 5	0.546
Inorganic	Mercury	mg/kg		0.068	0.068	0.23	5 / 5	0.1262
Inorganic	Potassium	mg/kg		3760	3760	4090	5 / 5	3904
Inorganic	Selenium	mg/kg		0.19	0.19	0.32	5 / 5	0.234
Inorganic	Sodium	mg/kg		433	433	515	5 / 5	475.4
Inorganic	Strontium	mg/kg		0.12	0.12	1.2	5 / 5	0.51
Inorganic	Zinc	mg/kg		7	7	11.4	5 / 5	8.92

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-24: Baseline Fish, Spring 2009 - Channel Catfish Fillet Homogenate (Reanalyzed) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.034	0.034	0.038	2 / 2	0.036
Inorganic	Barium	mg/kg		0.047	0.047	0.15	4 / 4	0.0795
Inorganic	Cadmium	mg/kg		0.012	0.012	0.012	1 / 1	0.012
Inorganic	Calcium	mg/kg		78.8	78.8	232	6 / 6	116.8
Inorganic	Chromium	mg/kg		0.15	0.15	0.7	2 / 2	0.425
Inorganic	Cobalt	mg/kg		0.015	0.015	0.039	3 / 3	0.02367
Inorganic	Copper	mg/kg		0.22	0.22	0.57	6 / 6	0.3867
Inorganic	Magnesium	mg/kg		199	199	246	6 / 6	216.8
Inorganic	Manganese	mg/kg		0.18	0.18	0.63	6 / 6	0.3067
Inorganic	Mercury	mg/kg		0.044	0.044	0.24	6 / 6	0.1243
Inorganic	Nickel	mg/kg		0.35	0.35	0.35	1 / 1	0.35
Inorganic	Potassium	mg/kg		3190	3190	3880	6 / 6	3587
Inorganic	Selenium	mg/kg		0.18	0.18	0.38	6 / 6	0.2733
Inorganic	Silver	mg/kg		0.03	0.03	0.03	1 / 1	0.03
Inorganic	Sodium	mg/kg		305	305	387	6 / 6	338.5
Inorganic	Strontium	mg/kg		0.072	0.072	0.38	6 / 6	0.1617
Inorganic	Vanadium	mg/kg		0.1	0.1	0.1	1 / 1	0.1
Inorganic	Zinc	mg/kg		5.6	5.6	13.1	6 / 6	8.017

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-25: Baseline Fish, Spring 2009 - Channel Catfish Fillet Homogenate (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		10.8	10.8	18	2 / 2	14.4
Inorganic	Arsenic	mg/kg		0.028	0.028	0.028	1 / 1	0.028
Inorganic	Barium	mg/kg		0.055	0.055	1.2	4 / 4	0.4163
Inorganic	Calcium	mg/kg		125	125	19400	4 / 4	5132
Inorganic	Chromium	mg/kg		0.27	0.27	0.86	2 / 2	0.565
Inorganic	Cobalt	mg/kg		0.025	0.025	0.077	3 / 3	0.04267
Inorganic	Copper	mg/kg		0.32	0.32	1.4	4 / 4	0.65
Inorganic	Lead	mg/kg		0.027	0.027	0.24	2 / 2	0.1335
Inorganic	Magnesium	mg/kg		208	208	556	4 / 4	329
Inorganic	Manganese	mg/kg		0.37	0.37	12.1	4 / 4	3.71
Inorganic	Mercury	mg/kg		0.048	0.048	0.18	4 / 4	0.099
Inorganic	Nickel	mg/kg		0.14	0.14	0.55	2 / 2	0.345
Inorganic	Potassium	mg/kg		4210	4210	4880	4 / 4	4553
Inorganic	Selenium	mg/kg		0.19	0.19	0.36	4 / 4	0.2725
Inorganic	Sodium	mg/kg		393	393	721	4 / 4	520.8
Inorganic	Strontium	mg/kg		0.14	0.14	14.3	4 / 4	3.833
Inorganic	Vanadium	mg/kg		0.15	0.15	0.15	1 / 1	0.15
Inorganic	Zinc	mg/kg		8.4	8.4	14	4 / 4	10.13

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-26: Baseline Fish, Spring 2009 - Channel Catfish Fillet Homogenate (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Antimony	mg/kg		0.017	0.017	0.017	1 / 1	0.017
Inorganic	Arsenic	mg/kg		0.053	0.053	0.053	1 / 1	0.053
Inorganic	Barium	mg/kg		0.072	0.072	0.16	5 / 5	0.1224
Inorganic	Cadmium	mg/kg		0.013	0.013	0.014	2 / 2	0.0135
Inorganic	Calcium	mg/kg		175	175	2430	5 / 5	690.4
Inorganic	Chromium	mg/kg		0.15	0.15	0.19	2 / 2	0.17
Inorganic	Cobalt	mg/kg		0.015	0.015	0.036	4 / 4	0.02125
Inorganic	Copper	mg/kg		0.32	0.32	0.57	5 / 5	0.474
Inorganic	Lead	mg/kg		0.043	0.043	0.043	1 / 1	0.043
Inorganic	Magnesium	mg/kg		221	221	278	5 / 5	247.4
Inorganic	Manganese	mg/kg		0.31	0.31	1.1	5 / 5	0.594
Inorganic	Mercury	mg/kg		0.039	0.039	0.3	5 / 5	0.098
Inorganic	Potassium	mg/kg		3370	3370	4460	5 / 5	3858
Inorganic	Selenium	mg/kg		0.2	0.2	0.66	5 / 5	0.396
Inorganic	Sodium	mg/kg		373	373	531	5 / 5	457
Inorganic	Strontium	mg/kg		0.14	0.14	1.2	5 / 5	0.414
Inorganic	Vanadium	mg/kg		0.047	0.047	0.048	2 / 2	0.0475
Inorganic	Zinc	mg/kg		8	8	12.5	5 / 5	9.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-27: Baseline Fish, Spring 2009 - Largemouth Bass Fillet Homogenate (Reanalyzed) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Antimony	mg/kg		0.021	0.021	0.021	1 / 1	0.021
Inorganic	Arsenic	mg/kg		0.039	0.039	0.23	6 / 6	0.1315
Inorganic	Barium	mg/kg		0.063	0.063	0.15	3 / 3	0.1043
Inorganic	Calcium	mg/kg		110	110	1720	6 / 6	595.2
Inorganic	Chromium	mg/kg		0.16	0.16	0.44	2 / 2	0.3
Inorganic	Cobalt	mg/kg		0.018	0.018	0.03	2 / 2	0.024
Inorganic	Copper	mg/kg		0.24	0.24	1	6 / 6	0.41
Inorganic	Magnesium	mg/kg		284	284	353	6 / 6	312.7
Inorganic	Manganese	mg/kg		0.2	0.2	0.41	5 / 5	0.266
Inorganic	Mercury	mg/kg		0.11	0.11	0.21	6 / 6	0.1517
Inorganic	Molybdenum	mg/kg	0.09 / 0.09	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg		0.21	0.21	0.21	1 / 1	0.21
Inorganic	Potassium	mg/kg		4080	4080	4590	6 / 6	4363
Inorganic	Selenium	mg/kg		0.4	0.4	0.63	6 / 6	0.475
Inorganic	Sodium	mg/kg		362	362	507	6 / 6	427.8
Inorganic	Strontium	mg/kg		0.046	0.046	1.6	6 / 6	0.4987
Inorganic	Vanadium	mg/kg		0.089	0.089	0.089	1 / 1	0.089
Inorganic	Zinc	mg/kg		6.3	6.3	19	6 / 6	9.8

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-28: Baseline Fish, Spring 2009 - Largemouth Bass Fillet Homogenate (Reanalyzed) at Clinch River Mile 9.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		18.7	18.7	18.7	1 / 1	18.7
Inorganic	Arsenic	mg/kg		0.15	0.15	0.33	5 / 5	0.262
Inorganic	Barium	mg/kg		0.075	0.075	0.14	4 / 4	0.111
Inorganic	Calcium	mg/kg		462	462	3550	5 / 5	2208
Inorganic	Copper	mg/kg		0.34	0.34	0.39	5 / 5	0.374
Inorganic	Magnesium	mg/kg		294	294	359	5 / 5	325.2
Inorganic	Manganese	mg/kg		0.18	0.18	0.5	5 / 5	0.356
Inorganic	Mercury	mg/kg		0.043	0.043	0.21	5 / 5	0.1048
Inorganic	Potassium	mg/kg		3520	3520	4830	5 / 5	3974
Inorganic	Selenium	mg/kg		0.55	0.55	0.69	5 / 5	0.614
Inorganic	Sodium	mg/kg		453	453	622	5 / 5	541
Inorganic	Strontium	mg/kg		0.31	0.31	2.9	5 / 5	1.734
Inorganic	Zinc	mg/kg		7.2	7.2	13.4	5 / 5	10.48

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-29: Baseline Fish, Spring 2009 - Largemouth Bass Fillet Homogenate (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.18	0.18	0.28	4 / 4	0.2275
Inorganic	Barium	mg/kg		0.065	0.065	0.18	4 / 4	0.1088
Inorganic	Cadmium	mg/kg		0.0085	0.0085	0.017	2 / 2	0.01275
Inorganic	Calcium	mg/kg		1180	1180	4660	4 / 4	2713
Inorganic	Chromium	mg/kg		0.21	0.21	0.33	3 / 3	0.2633
Inorganic	Cobalt	mg/kg		0.016	0.016	0.024	3 / 3	0.019
Inorganic	Copper	mg/kg		0.38	0.38	0.49	4 / 4	0.4525
Inorganic	Magnesium	mg/kg		300	300	362	4 / 4	336
Inorganic	Manganese	mg/kg		0.31	0.31	1.2	4 / 4	0.6025
Inorganic	Mercury	mg/kg		0.024	0.024	0.051	4 / 4	0.03475
Inorganic	Nickel	mg/kg		0.12	0.12	0.21	3 / 3	0.1667
Inorganic	Potassium	mg/kg		3890	3890	4630	4 / 4	4205
Inorganic	Selenium	mg/kg		0.37	0.37	0.46	4 / 4	0.4175
Inorganic	Silver	mg/kg		0.0036	0.0036	0.0036	1 / 1	0.0036
Inorganic	Sodium	mg/kg		476	476	597	4 / 4	536.5
Inorganic	Strontium	mg/kg		0.94	0.94	3.7	4 / 4	2.21
Inorganic	Thallium	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg		0.049	0.049	0.049	1 / 1	0.049
Inorganic	Zinc	mg/kg		8.3	8.3	11.7	4 / 4	10.05

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table B-30: Baseline Fish, Spring 2009 - Spotted Bass Fillet Homogenate (Reanalyzed) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Arsenic	mg/kg		0.27	0.27	0.27	1 / 1	0.27
Inorganic	Barium	mg/kg		0.29	0.29	0.29	1 / 1	0.29
Inorganic	Calcium	mg/kg		2320	2320	2320	1 / 1	2320
Inorganic	Copper	mg/kg		0.45	0.45	0.45	1 / 1	0.45
Inorganic	Magnesium	mg/kg		306	306	306	1 / 1	306
Inorganic	Manganese	mg/kg		0.21	0.21	0.21	1 / 1	0.21
Inorganic	Mercury	mg/kg		0.086	0.086	0.086	1 / 1	0.086
Inorganic	Potassium	mg/kg		3930	3930	3930	1 / 1	3930
Inorganic	Selenium	mg/kg		0.47	0.47	0.47	1 / 1	0.47
Inorganic	Sodium	mg/kg		607	607	607	1 / 1	607
Inorganic	Strontium	mg/kg		1.8	1.8	1.8	1 / 1	1.8
Inorganic	Zinc	mg/kg		11.3	11.3	11.3	1 / 1	11.3

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX C

TDEC Special Request I, Spring 2009

Table C- 1: TDEC Special Request I, Spring 2009 - Largemouth Bass Whole Body at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	25.03 / 25.03	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.1361	0.1361	0.2	2 / 2	0.1681
Inorganic	Barium	mg/kg		0.2236	0.2236	0.2236	1 / 1	0.2236
Inorganic	Beryllium	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.5103 / 0.5103	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.05 / 0.09963	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		4010	4010	4010	1 / 1	4010
Inorganic	Chromium	mg/kg		0.1531	0.1531	0.1531	1 / 1	0.1531
Inorganic	Cobalt	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5103 / 0.5103	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg	25.03 / 25.03	ND	ND	ND	0 / 1	0
Inorganic	Lead	mg/kg	0.09963 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Magnesium	mg/kg		247.9	247.9	247.9	1 / 1	247.9
Inorganic	Manganese	mg/kg		1.021	1.021	1.021	1 / 1	1.021
Inorganic	Mercury	mg/kg		0.06318	0.06318	0.1	2 / 2	0.08159
Inorganic	Molybdenum	mg/kg	0.9963 / 0.9963	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		2600	2600	2600	1 / 1	2600
Inorganic	Selenium	mg/kg		0.6	0.6	0.6561	2 / 2	0.6281
Inorganic	Silver	mg/kg	0.05103 / 0.05103	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		923.4	923.4	923.4	1 / 1	923.4
Inorganic	Strontium	mg/kg		3.232	3.232	3.232	1 / 1	3.232
Inorganic	Thallium	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.1993 / 0.1993	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		14.6	14.6	14.6	1 / 1	14.6
Physical Properties	% Lipids	%		2.6	2.6	2.6	1 / 1	2.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table C- 2: TDEC Special Request I, Spring 2009 - Red Ear Sunfish Whole Body at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	25.03 / 25.03	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.1531	0.1531	0.2	2 / 2	0.1766
Inorganic	Barium	mg/kg		2.503	2.503	2.503	1 / 1	2.503
Inorganic	Beryllium	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.5103 / 0.5103	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.05 / 0.09963	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		22113	22113	22113	1 / 1	22113
Inorganic	Chromium	mg/kg		0.1239	0.1239	0.1239	1 / 1	0.1239
Inorganic	Cobalt	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5103 / 0.5103	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg	25.03 / 25.03	ND	ND	ND	0 / 1	0
Inorganic	Lead	mg/kg	0.09963 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Magnesium	mg/kg		459.3	459.3	459.3	1 / 1	459.3
Inorganic	Manganese	mg/kg		6.78	6.78	6.78	1 / 1	6.78
Inorganic	Mercury	mg/kg	0.01993 / 0.1	ND	0.03645	0.03645	1 / 2	0.03645
Inorganic	Molybdenum	mg/kg	0.9963 / 0.9963	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		2867	2867	2867	1 / 1	2867
Inorganic	Selenium	mg/kg		0.4	0.4	0.7047	2 / 2	0.5524
Inorganic	Silver	mg/kg	0.05103 / 0.05103	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1208	1208	1208	1 / 1	1208
Inorganic	Strontium	mg/kg		16.96	16.96	16.96	1 / 1	16.96
Inorganic	Thallium	mg/kg	0.09963 / 0.09963	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.1993 / 0.1993	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		20.83	20.83	20.83	1 / 1	20.83
Physical Properties	% Lipids	%		1.7	1.7	1.7	1 / 1	1.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX D

TDEC Special Request II, Spring 2009

Table D- 1: TDEC Special Request II, Spring 2009 - Black Crappie Whole Body at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.12	0.12	0.33	5 / 5	0.218
Inorganic	Barium	mg/kg		0.62	0.62	1.7	5 / 5	1.184
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		5990	5990	35100	5 / 5	16978
Inorganic	Chromium	mg/kg	0.1 / 0.41	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 5	0
Inorganic	Iron	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		273	273	744	5 / 5	465.8
Inorganic	Manganese	mg/kg		2.3	2.3	7.5	5 / 5	4.48
Inorganic	Mercury	mg/kg	0.02 / 0.042	ND	ND	ND	0 / 5	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.26	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2820	2820	3340	5 / 5	3050
Inorganic	Selenium	mg/kg		0.41	0.41	0.69	5 / 5	0.52
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		797	797	1350	5 / 5	1028
Inorganic	Strontium	mg/kg		5.1	5.1	25.9	5 / 5	13.34
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		10.2	10.2	17.4	5 / 5	14.86
Physical Properties	% Lipids	%		0.82	0.82	3.6	5 / 5	2.624
Physical Properties	% Moisture	%		71.8	71.8	74.5	5 / 5	73.28

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table D- 2: TDEC Special Request II, Spring 2009 - Black Crappie Whole Body at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.27	5 / 5	0.208
Inorganic	Barium	mg/kg		0.47	0.47	3.5	5 / 5	1.854
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		6400	6400	56600	5 / 5	25420
Inorganic	Chromium	mg/kg	0.15 / 0.31	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 5	0
Inorganic	Iron	mg/kg	24.9 / 25	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		329	329	1030	5 / 5	579.4
Inorganic	Manganese	mg/kg		2.6	2.6	20.7	5 / 5	8.7
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	ND	ND	0 / 5	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.099 / 0.15	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2820	2820	3010	5 / 5	2884
Inorganic	Selenium	mg/kg		0.65	0.65	0.79	5 / 5	0.716
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		950	950	1650	5 / 5	1148
Inorganic	Strontium	mg/kg		5.1	5.1	49.2	5 / 5	23.16
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		10.1	10.1	29.3	5 / 5	18.04
Physical Properties	% Lipids	%		1.3	1.3	3.6	5 / 5	2.7
Physical Properties	% Moisture	%		67.6	67.6	73.5	5 / 5	71.24

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table D- 3: TDEC Special Request II, Spring 2009 - Black Crappie Whole Body at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.73 / 24.97	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.2075	0.2075	0.3435	5 / 5	0.2433
Inorganic	Barium	mg/kg		0.2748	0.2748	1.403	5 / 5	0.7052
Inorganic	Beryllium	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	1.973 / 2.008	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		4504	4504	25108	5 / 5	11930
Inorganic	Chromium	mg/kg	0.1012 / 0.2772	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.495 / 0.506	ND	ND	ND	0 / 5	0
Inorganic	Iron	mg/kg	24.73 / 24.97	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		277.4	277.4	577.5	5 / 5	389.1
Inorganic	Manganese	mg/kg		0.9389	0.9389	7.15	5 / 5	3.185
Inorganic	Mercury	mg/kg	0.01991 / 0.02977	ND	ND	ND	0 / 5	0
Inorganic	Molybdenum	mg/kg	0.9828 / 1.001	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.09847 / 0.184	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2621	2621	2970	5 / 5	2795
Inorganic	Selenium	mg/kg		0.417	0.417	0.7056	5 / 5	0.5708
Inorganic	Silver	mg/kg	0.0495 / 0.0506	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		717.2	717.2	1298	5 / 5	1004
Inorganic	Strontium	mg/kg		4.145	4.145	21.09	5 / 5	9.932
Inorganic	Thallium	mg/kg	0.09828 / 0.1001	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.1973 / 0.2008	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		10.59	10.59	14.69	5 / 5	12.36
Physical Properties	% Lipids	%		1.8	1.8	3.1	5 / 5	2.42
Physical Properties	% Moisture	%		72.2	72.2	77.1	5 / 5	74.26

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table D- 4: TDEC Special Request II, Spring 2009 - Black Crappie Whole Body at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	25 / 25	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.22	0.22	0.39	5 / 5	0.306
Inorganic	Barium	mg/kg		0.39	0.39	1	5 / 5	0.712
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		6760	6760	15200	5 / 5	11470
Inorganic	Chromium	mg/kg	0.12 / 0.21	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.8	0.8	1 / 5	0.8
Inorganic	Iron	mg/kg	25 / 25	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		298	298	422	5 / 5	363.6
Inorganic	Manganese	mg/kg		2.9	2.9	8.1	5 / 5	4.64
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	0.022	0.082	3 / 5	0.04367
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.1 / 0.12	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2560	2560	2810	5 / 5	2686
Inorganic	Selenium	mg/kg		0.36	0.36	0.67	5 / 5	0.46
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		831	831	1140	5 / 5	966.8
Inorganic	Strontium	mg/kg		5.2	5.2	13.4	5 / 5	9.82
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		11.9	11.9	16.4	5 / 5	14.08
Physical Properties	% Lipids	%		2.9	2.9	5.1	5 / 5	4.02
Physical Properties	% Moisture	%		65.4	65.4	77.7	5 / 5	71.36

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX E
TVA Sampling, Spring 2009

Table E- 1: TVA Sampling, Spring 2009 - Black Crappie Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1.3	1.3	4.7	2 / 2	3
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.31	2 / 2	0.24
Inorganic	Barium	mg/kg	0.04 / 0.04	ND	ND	ND	0 / 2	0
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	0.064 / 0.21	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg	0.006 / 0.025	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		116	116	133	2 / 2	124.5
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 2	0
Inorganic	Cobalt	mg/kg	0.0049 / 0.0065	ND	ND	ND	0 / 2	0
Inorganic	Copper	mg/kg		0.19	0.19	0.3	2 / 2	0.245
Inorganic	Iron	mg/kg	12.5 / 12.5	ND	ND	ND	0 / 2	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 2	0
Inorganic	Magnesium	mg/kg		273	273	295	2 / 2	284
Inorganic	Manganese	mg/kg		0.088	0.088	0.1	2 / 2	0.094
Inorganic	Mercury	mg/kg	0.0043 / 0.025	ND	0.098	0.098	1 / 2	0.098
Inorganic	Molybdenum	mg/kg	0.011 / 0.013	ND	ND	ND	0 / 2	0
Inorganic	Nickel	mg/kg	0.037 / 0.044	ND	ND	ND	0 / 2	0
Inorganic	Potassium	mg/kg		3950	3950	4240	2 / 2	4095
Inorganic	Selenium	mg/kg		0.51	0.51	0.53	2 / 2	0.52
Inorganic	Silver	mg/kg	0.003 / 0.0059	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		364	364	369	2 / 2	366.5
Inorganic	Strontium	mg/kg	0.067 / 0.091	ND	ND	ND	0 / 2	0
Inorganic	Thallium	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 2	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 2	0
Inorganic	Zinc	mg/kg		6.1	6.1	7	2 / 2	6.55
Physical Properties	% Lipids	%		0.44	0.44	1.6	2 / 2	1.02
Physical Properties	% Moisture	%		79	79	80.3	2 / 2	79.65

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 2: TVA Sampling, Spring 2009 - Bluegill Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 2.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.019	0.019	0.032	6 / 6	0.02217
Inorganic	Barium	mg/kg	0.02 / 0.021	ND	0.027	0.19	5 / 6	0.0728
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.064 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		97.2	97.2	779	6 / 6	421.4
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0049 / 0.0049	ND	0.0058	0.011	4 / 6	0.007575
Inorganic	Copper	mg/kg	0.18 / 0.18	ND	0.21	0.22	3 / 6	0.2133
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		251	251	297	6 / 6	276.8
Inorganic	Manganese	mg/kg		0.14	0.14	0.6	6 / 6	0.3967
Inorganic	Mercury	mg/kg		0.055	0.055	0.18	6 / 6	0.08667
Inorganic	Molybdenum	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.033 / 0.093	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3150	3150	3710	6 / 6	3483
Inorganic	Selenium	mg/kg		0.32	0.32	0.51	6 / 6	0.4333
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		233	233	354	6 / 6	297.3
Inorganic	Strontium	mg/kg	0.015 / 0.015	ND	0.19	0.59	5 / 6	0.334
Inorganic	Thallium	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.1	7.1	12.7	6 / 6	8.667
Physical Properties	% Lipids	%		0.43	0.43	0.82	6 / 6	0.6
Physical Properties	% Moisture	%		80.9	80.9	83.2	5 / 5	81.76

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 3: TVA Sampling, Spring 2009 - Bluegill Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 3.4	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.03	0.03	0.047	6 / 6	0.03917
Inorganic	Barium	mg/kg	0.02 / 0.021	ND	0.04	0.082	4 / 6	0.05725
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.064 / 0.16	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		109	109	1000	6 / 6	499.5
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.008	0.008	0.014	6 / 6	0.01062
Inorganic	Copper	mg/kg	0.18 / 0.18	ND	0.19	0.33	5 / 6	0.25
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		244	244	284	6 / 6	264.3
Inorganic	Manganese	mg/kg		0.16	0.16	0.72	6 / 6	0.3783
Inorganic	Mercury	mg/kg		0.023	0.023	0.05	6 / 6	0.037
Inorganic	Molybdenum	mg/kg	0.011 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.033 / 0.11	ND	0.23	0.23	1 / 6	0.23
Inorganic	Potassium	mg/kg		3190	3190	3880	6 / 6	3467
Inorganic	Selenium	mg/kg		0.7	0.7	1	6 / 6	0.8017
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		268	268	353	6 / 6	308.3
Inorganic	Strontium	mg/kg		0.037	0.037	0.89	6 / 6	0.426
Inorganic	Thallium	mg/kg	0.015 / 0.016	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.5	7.5	10.9	6 / 6	9.767
Physical Properties	% Lipids	%		0.42	0.42	1.4	5 / 5	0.79
Physical Properties	% Moisture	%		81.5	81.5	83.8	3 / 3	82.33

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 4: TVA Sampling, Spring 2009 - Bluegill Fillet at Emory River Mile 1.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1.3	1.3	4.664	6 / 6	2.402
Inorganic	Antimony	mg/kg	0.0185 / 0.0194	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.01569 / 0.07956	ND	0.09945	0.09945	1 / 6	0.09945
Inorganic	Barium	mg/kg		0.0408	0.0408	0.4074	6 / 6	0.1112
Inorganic	Beryllium	mg/kg	0.00326 / 0.00333	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.0638 / 0.06528	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00592 / 0.00601	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		134.4	134.4	5607	6 / 6	1267
Inorganic	Chromium	mg/kg	0.1232 / 0.1244	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.00718 / 0.01369	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1897	0.1897	1.856	6 / 6	0.5234
Inorganic	Iron	mg/kg	12.43 / 12.53	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.01055 / 0.01061	ND	0.01513	0.06188	2 / 6	0.03851
Inorganic	Magnesium	mg/kg		267.2	267.2	343.4	6 / 6	291.5
Inorganic	Manganese	mg/kg		0.1489	0.1489	5.413	6 / 6	1.27
Inorganic	Mercury	mg/kg	0.00418 / 0.02431	ND	0.0306	0.05916	5 / 6	0.04753
Inorganic	Molybdenum	mg/kg	0.01276 / 0.03298	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.0194	0.0194	0.05304	6 / 6	0.04559
Inorganic	Potassium	mg/kg		3330	3330	3580	6 / 6	3459
Inorganic	Selenium	mg/kg		0.6984	0.6984	0.858	6 / 6	0.7749
Inorganic	Silver	mg/kg	0.00296 / 0.0031	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		257.4	257.4	330.5	6 / 6	300.8
Inorganic	Strontium	mg/kg		0.06936	0.06936	4.617	6 / 6	1.019
Inorganic	Thallium	mg/kg	0.01459 / 0.01474	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.05432 / 0.0555	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		12.49	12.49	16.78	6 / 6	14.12
Physical Properties	% Lipids	%		0.47	0.47	0.99	6 / 6	0.65
Physical Properties	% Moisture	%		77.9	77.9	81.5	6 / 6	79.53

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 5: TVA Sampling, Spring 2009 - Bluegill Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.79 / 0.86	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.022 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.047	0.047	0.069	6 / 6	0.0595
Inorganic	Barium	mg/kg		0.026	0.026	0.13	6 / 6	0.06633
Inorganic	Beryllium	mg/kg	0.003 / 0.0032	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.058 / 0.063	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0054 / 0.0058	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		204	204	2640	6 / 6	1048
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0048 / 0.013	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.17	0.17	0.27	6 / 6	0.2283
Inorganic	Iron	mg/kg	11.2 / 12.1	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0095 / 0.01	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		269	269	299	6 / 6	283.5
Inorganic	Manganese	mg/kg		0.17	0.17	1.3	6 / 6	0.5233
Inorganic	Mercury	mg/kg		0.034	0.034	0.088	6 / 6	0.05383
Inorganic	Molybdenum	mg/kg	0.0097 / 0.012	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.031 / 0.058	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3150	3150	3630	6 / 6	3368
Inorganic	Selenium	mg/kg		0.5	0.5	0.69	6 / 6	0.5917
Inorganic	Silver	mg/kg	0.0027 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		261	261	381	6 / 6	317.7
Inorganic	Strontium	mg/kg		0.12	0.12	2.3	6 / 6	0.8433
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.049 / 0.053	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.3	8.3	20.2	6 / 6	13.33
Physical Properties	% Lipids	%		0.56	0.56	1.1	6 / 6	0.7367
Physical Properties	% Moisture	%		78.7	78.7	82.3	5 / 5	80.9

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 6: TVA Sampling, Spring 2009 - Bluegill Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 0.89	ND	0.99	3.3	5 / 6	1.978
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.037 / 0.079	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg		0.03	0.03	0.051	6 / 6	0.04133
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.064 / 0.065	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.006 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		154	154	875	6 / 6	384.5
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0053 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.19	0.19	0.34	6 / 6	0.255
Inorganic	Iron	mg/kg	12.5 / 12.6	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	0.02	0.032	4 / 6	0.02825
Inorganic	Magnesium	mg/kg		243	243	293	6 / 6	272.7
Inorganic	Manganese	mg/kg		0.15	0.15	0.71	6 / 6	0.3683
Inorganic	Mercury	mg/kg		0.031	0.031	0.075	6 / 6	0.0465
Inorganic	Molybdenum	mg/kg	0.012 / 0.017	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.037	0.037	0.041	6 / 6	0.039
Inorganic	Potassium	mg/kg		2970	2970	3310	6 / 6	3165
Inorganic	Selenium	mg/kg		0.44	0.44	0.86	6 / 6	0.7
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		301	301	388	6 / 6	335
Inorganic	Strontium	mg/kg		0.063	0.063	0.74	6 / 6	0.2733
Inorganic	Thallium	mg/kg	0.015 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.7	8.7	18	6 / 6	12.88
Physical Properties	% Lipids	%		0.47	0.47	1.6	6 / 6	0.8517
Physical Properties	% Moisture	%		79.7	79.7	81.9	6 / 6	80.45

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 7: TVA Sampling, Spring 2009 - Gizzard Shad Whole Body at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		324	324	400	3 / 3	373.3
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.31	0.31	0.38	3 / 3	0.3467
Inorganic	Barium	mg/kg		9	9	9.4	3 / 3	9.133
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		8350	8350	12400	3 / 3	10003
Inorganic	Chromium	mg/kg		1.8	1.8	2.4	3 / 3	2.033
Inorganic	Cobalt	mg/kg		0.31	0.31	0.39	3 / 3	0.36
Inorganic	Copper	mg/kg		1.4	1.4	2.3	3 / 3	1.9
Inorganic	Iron	mg/kg		587	587	708	3 / 3	653.3
Inorganic	Lead	mg/kg		0.78	0.78	0.8	3 / 3	0.79
Inorganic	Magnesium	mg/kg		322	322	360	3 / 3	341.3
Inorganic	Manganese	mg/kg		45.3	45.3	50.9	3 / 3	47.77
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.61	0.61	0.76	3 / 3	0.6767
Inorganic	Potassium	mg/kg		2220	2220	2420	3 / 3	2320
Inorganic	Selenium	mg/kg		0.51	0.51	0.56	3 / 3	0.53
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1000	1000	1110	3 / 3	1047
Inorganic	Strontium	mg/kg		5.5	5.5	7.6	3 / 3	6.3
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.58	0.58	0.72	3 / 3	0.6533
Inorganic	Zinc	mg/kg		16.8	16.8	18.3	3 / 3	17.67
Physical Properties	% Lipids	%		1	1	2	3 / 3	1.5
Physical Properties	% Moisture	%		74.4	74.4	75.2	3 / 3	74.77

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 8: TVA Sampling, Spring 2009 - Gizzard Shad Whole Body at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		331	331	444	3 / 3	370.3
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.55	0.55	0.83	3 / 3	0.6733
Inorganic	Barium	mg/kg		7.7	7.7	10.1	3 / 3	9.067
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		9720	9720	18300	3 / 3	12973
Inorganic	Chromium	mg/kg		1.8	1.8	2	3 / 3	1.867
Inorganic	Cobalt	mg/kg		0.36	0.36	0.5	3 / 3	0.4133
Inorganic	Copper	mg/kg		1.5	1.5	2.8	3 / 3	2.067
Inorganic	Iron	mg/kg		464	464	621	3 / 3	540
Inorganic	Lead	mg/kg		0.59	0.59	0.69	3 / 3	0.6567
Inorganic	Magnesium	mg/kg		306	306	402	3 / 3	352
Inorganic	Manganese	mg/kg		51.6	51.6	57.8	3 / 3	54.27
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.69	0.69	0.91	3 / 3	0.79
Inorganic	Potassium	mg/kg		2170	2170	2430	3 / 3	2303
Inorganic	Selenium	mg/kg		0.64	0.64	0.75	3 / 3	0.7033
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1050	1050	1330	3 / 3	1167
Inorganic	Strontium	mg/kg		7.6	7.6	13.1	3 / 3	9.9
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.8	0.8	1.1	3 / 3	0.9033
Inorganic	Zinc	mg/kg		15.9	15.9	19.7	3 / 3	17.47
Physical Properties	% Lipids	%		1.1	1.1	1.4	3 / 3	1.267
Physical Properties	% Moisture	%		76.7	76.7	77.6	3 / 3	77.23

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E- 9: TVA Sampling, Spring 2009 - Gizzard Shad Whole Body at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		518	518	562	3 / 3	534
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.68	0.68	1.2	3 / 3	0.96
Inorganic	Barium	mg/kg		8.7	8.7	10.5	3 / 3	9.833
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		10800	10800	13400	3 / 3	12100
Inorganic	Chromium	mg/kg		1.5	1.5	1.8	3 / 3	1.7
Inorganic	Cobalt	mg/kg		0.5	0.5	0.55	3 / 3	0.5267
Inorganic	Copper	mg/kg		1.6	1.6	3.5	3 / 3	2.4
Inorganic	Iron	mg/kg		543	543	666	3 / 3	618.3
Inorganic	Lead	mg/kg		0.76	0.76	0.95	3 / 3	0.84
Inorganic	Magnesium	mg/kg		363	363	388	3 / 3	373.3
Inorganic	Manganese	mg/kg		60.8	60.8	72.1	3 / 3	66.7
Inorganic	Mercury	mg/kg	0.02 / 0.021	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.81	0.81	0.92	3 / 3	0.8533
Inorganic	Potassium	mg/kg		2160	2160	2400	3 / 3	2290
Inorganic	Selenium	mg/kg		0.63	0.63	0.85	3 / 3	0.75
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1040	1040	1220	3 / 3	1120
Inorganic	Strontium	mg/kg		9.8	9.8	11.4	3 / 3	10.8
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		1.1	1.1	1.5	3 / 3	1.333
Inorganic	Zinc	mg/kg		16.8	16.8	18.6	3 / 3	17.53
Physical Properties	% Lipids	%		1	1	1.4	3 / 3	1.167
Physical Properties	% Moisture	%		76	76	76.9	3 / 3	76.57

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-10: TVA Sampling, Spring 2009 - Gizzard Shad Whole Body at Clinch River Mile 7.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		164	164	302	3 / 3	213.7
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.23	0.23	0.28	3 / 3	0.26
Inorganic	Barium	mg/kg		4.6	4.6	4.9	3 / 3	4.767
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		11700	11700	16200	3 / 3	14167
Inorganic	Chromium	mg/kg		0.92	0.92	1.1	3 / 3	1.007
Inorganic	Cobalt	mg/kg		0.17	0.17	0.28	3 / 3	0.22
Inorganic	Copper	mg/kg		0.79	0.79	0.97	3 / 3	0.91
Inorganic	Iron	mg/kg		214	214	399	3 / 3	282
Inorganic	Lead	mg/kg		0.35	0.35	0.57	3 / 3	0.4467
Inorganic	Magnesium	mg/kg		333	333	399	3 / 3	368
Inorganic	Manganese	mg/kg		46.7	46.7	49.4	3 / 3	47.63
Inorganic	Mercury	mg/kg	0.02 / 0.025	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.27	0.27	0.41	3 / 3	0.35
Inorganic	Potassium	mg/kg		2130	2130	2390	3 / 3	2253
Inorganic	Selenium	mg/kg		0.51	0.51	0.53	3 / 3	0.5233
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		998	998	1240	3 / 3	1086
Inorganic	Strontium	mg/kg		6.6	6.6	11.9	3 / 3	9.567
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.29	0.29	0.55	3 / 3	0.3833
Inorganic	Zinc	mg/kg		17.4	17.4	17.5	3 / 3	17.47
Physical Properties	% Lipids	%		1.6	1.6	2.7	3 / 3	2
Physical Properties	% Moisture	%		75.3	75.3	76.9	3 / 3	76.3

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-11: TVA Sampling, Spring 2009 - Gizzard Shad Whole Body at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		223	223	497	3 / 3	325.7
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.46	0.46	0.83	3 / 3	0.6267
Inorganic	Barium	mg/kg		4.7	4.7	8.4	3 / 3	6.133
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		10100	10100	12900	3 / 3	11933
Inorganic	Chromium	mg/kg		0.49	0.49	2	3 / 3	1.16
Inorganic	Cobalt	mg/kg		0.17	0.17	0.32	3 / 3	0.23
Inorganic	Copper	mg/kg		1.4	1.4	2	3 / 3	1.7
Inorganic	Iron	mg/kg		213	213	426	3 / 3	309.7
Inorganic	Lead	mg/kg		0.33	0.33	0.61	3 / 3	0.46
Inorganic	Magnesium	mg/kg		312	312	394	3 / 3	351.7
Inorganic	Manganese	mg/kg		38.8	38.8	55.4	3 / 3	47.13
Inorganic	Mercury	mg/kg	0.02 / 0.027	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.32	0.32	0.68	3 / 3	0.48
Inorganic	Potassium	mg/kg		2650	2650	3310	3 / 3	2880
Inorganic	Selenium	mg/kg		0.46	0.46	0.62	3 / 3	0.5333
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		974	974	1220	3 / 3	1098
Inorganic	Strontium	mg/kg		7.7	7.7	12.6	3 / 3	9.633
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.58	0.58	1.3	3 / 3	0.85
Inorganic	Zinc	mg/kg		15.8	15.8	27.6	3 / 3	20.73
Physical Properties	% Lipids	%		1.6	1.6	2	3 / 3	1.8
Physical Properties	% Moisture	%		76	76	76.9	2 / 2	76.45

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-12: TVA Sampling, Spring 2009 - Largemouth Bass Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 25	ND	4.1	4.1	1 / 12	4.1
Inorganic	Antimony	mg/kg	0.015 / 0.1	ND	0.021	0.021	1 / 12	0.021
Inorganic	Arsenic	mg/kg	0.016 / 0.1	ND	0.032	0.28	17 / 21	0.1342
Inorganic	Barium	mg/kg	0.02 / 0.1	ND	0.063	0.1	3 / 13	0.08233
Inorganic	Beryllium	mg/kg	0.0033 / 0.1	ND	ND	ND	0 / 11	0
Inorganic	Boron	mg/kg	0.064 / 2	ND	ND	ND	0 / 11	0
Inorganic	Cadmium	mg/kg	0.006 / 0.1	ND	ND	ND	0 / 11	0
Inorganic	Calcium	mg/kg	43 / 99.2	ND	100	1130	19 / 21	257.4
Inorganic	Chromium	mg/kg	0.099 / 0.12	ND	0.11	0.44	4 / 12	0.2425
Inorganic	Cobalt	mg/kg	0.0049 / 0.1	ND	0.0049	0.03	7 / 13	0.01227
Inorganic	Copper	mg/kg	0.13 / 0.5	ND	0.2	0.35	13 / 21	0.2831
Inorganic	Iron	mg/kg	12.4 / 25	ND	ND	ND	0 / 11	0
Inorganic	Lead	mg/kg	0.011 / 0.1	ND	ND	ND	0 / 11	0
Inorganic	Magnesium	mg/kg		241	241	353	21 / 21	276.5
Inorganic	Manganese	mg/kg	0.084 / 0.5	ND	0.097	0.25	10 / 15	0.1585
Inorganic	Mercury	mg/kg		0.05	0.05	0.21	21 / 21	0.1268
Inorganic	Molybdenum	mg/kg	0.011 / 1	ND	ND	ND	0 / 11	0
Inorganic	Nickel	mg/kg	0.033 / 0.1	ND	0.091	0.21	3 / 13	0.1437
Inorganic	Potassium	mg/kg		3420	3420	4590	21 / 21	3908
Inorganic	Selenium	mg/kg		0.33	0.33	0.74	21 / 21	0.4567
Inorganic	Silver	mg/kg	0.003 / 0.05	ND	ND	ND	0 / 11	0
Inorganic	Sodium	mg/kg		291	291	507	21 / 21	390.2
Inorganic	Strontium	mg/kg	0.015 / 0.1	ND	0.045	0.87	15 / 20	0.1984
Inorganic	Thallium	mg/kg	0.015 / 0.1	ND	ND	ND	0 / 11	0
Inorganic	Vanadium	mg/kg	0.041 / 0.2	ND	0.089	0.089	1 / 12	0.089
Inorganic	Zinc	mg/kg		4.8	4.8	11.2	21 / 21	7.305
Physical Properties	% Lipids	%		0.24	0.24	2.5	11 / 11	1.189
Physical Properties	% Moisture	%		78.7	78.7	81.5	8 / 8	79.93

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-13: TVA Sampling, Spring 2009 - Largemouth Bass Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 0.888	ND	1.6	1.6	1 / 5	1.6
Inorganic	Antimony	mg/kg	0.0185 / 0.01921	ND	0.02042	0.02042	1 / 5	0.02042
Inorganic	Arsenic	mg/kg		0.0882	0.0882	0.222	5 / 5	0.1467
Inorganic	Barium	mg/kg	0.0196 / 0.042	ND	0.02548	0.03145	2 / 5	0.02847
Inorganic	Beryllium	mg/kg	0.0033 / 0.00333	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.064 / 0.06475	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.00592 / 0.00608	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		140.7	140.7	501.4	5 / 5	300
Inorganic	Chromium	mg/kg	0.12 / 0.1243	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.00481 / 0.008	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.1795 / 0.1803	ND	0.21	0.26	3 / 5	0.2381
Inorganic	Iron	mg/kg	12.4 / 12.52	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.01055 / 0.011	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		250.9	250.9	279.7	5 / 5	261.4
Inorganic	Manganese	mg/kg		0.12	0.12	0.161	5 / 5	0.1385
Inorganic	Mercury	mg/kg		0.04884	0.04884	0.2	5 / 5	0.1049
Inorganic	Molybdenum	mg/kg	0.01073 / 0.011	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.0333 / 0.037	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3478	3478	4260	5 / 5	3800
Inorganic	Selenium	mg/kg		0.481	0.481	0.7326	5 / 5	0.5905
Inorganic	Silver	mg/kg	0.00294 / 0.00311	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		397.4	397.4	453.3	5 / 5	415.8
Inorganic	Strontium	mg/kg	0.015 / 0.03108	ND	0.15	0.3885	4 / 5	0.2268
Inorganic	Thallium	mg/kg	0.01462 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.05488 / 0.0555	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		5.527	5.527	11.46	5 / 5	7.982
Physical Properties	% Lipids	%		0.4	0.4	1.3	5 / 5	0.854
Physical Properties	% Moisture	%		77.8	77.8	81.5	5 / 5	79.92

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-14: TVA Sampling, Spring 2009 - Largemouth Bass Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 0.89	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.14	0.14	0.3	6 / 6	0.2183
Inorganic	Barium	mg/kg	0.02 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.064 / 0.065	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		149	149	437	6 / 6	245
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0049 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.18 / 0.18	ND	0.21	0.24	5 / 6	0.22
Inorganic	Iron	mg/kg	12.4 / 12.6	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		251	251	285	6 / 6	271.3
Inorganic	Manganese	mg/kg		0.11	0.11	0.25	6 / 6	0.155
Inorganic	Mercury	mg/kg		0.049	0.049	0.11	6 / 6	0.07567
Inorganic	Molybdenum	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.033 / 0.034	ND	0.035	0.076	4 / 6	0.049
Inorganic	Potassium	mg/kg		3450	3450	3580	6 / 6	3522
Inorganic	Selenium	mg/kg		0.46	0.46	0.73	6 / 6	0.6133
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		337	337	470	6 / 6	401.7
Inorganic	Strontium	mg/kg		0.046	0.046	0.26	6 / 6	0.1237
Inorganic	Thallium	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.1	6.1	10.6	6 / 6	8.05
Physical Properties	% Lipids	%		0.79	0.79	4.1	6 / 6	2.115
Physical Properties	% Moisture	%		76.7	76.7	80.6	6 / 6	78.85

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-15: TVA Sampling, Spring 2009 - Largemouth Bass Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 0.89	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.19	0.19	0.35	6 / 6	0.2733
Inorganic	Barium	mg/kg	0.02 / 0.021	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0033 / 0.0063	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.064 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		119	119	366	6 / 6	227.3
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.21	0.21	1 / 6	0.21
Inorganic	Cobalt	mg/kg	0.0049 / 0.0086	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.18 / 0.18	ND	0.23	0.4	5 / 6	0.292
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		207	207	269	6 / 6	246.2
Inorganic	Manganese	mg/kg		0.1	0.1	0.18	6 / 6	0.135
Inorganic	Mercury	mg/kg		0.038	0.038	0.1	6 / 6	0.0595
Inorganic	Molybdenum	mg/kg	0.011 / 0.011	ND	0.016	0.016	1 / 6	0.016
Inorganic	Nickel	mg/kg	0.033 / 0.034	ND	0.046	0.046	1 / 6	0.046
Inorganic	Potassium	mg/kg		2820	2820	3660	6 / 6	3440
Inorganic	Selenium	mg/kg		0.34	0.34	0.76	6 / 6	0.6017
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		335	335	440	6 / 6	392
Inorganic	Strontium	mg/kg	0.015 / 0.032	ND	0.081	0.21	4 / 6	0.1378
Inorganic	Thallium	mg/kg	0.015 / 0.018	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.5	6.5	10.9	6 / 6	9.15
Physical Properties	% Lipids	%		1.1	1.1	3	6 / 6	2
Physical Properties	% Moisture	%		78.3	78.3	79.7	6 / 6	78.93

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-16: TVA Sampling, Spring 2009 - Largemouth Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.82 / 0.89	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.026 / 0.037	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.32	6 / 6	0.23
Inorganic	Barium	mg/kg	0.019 / 0.021	ND	0.027	0.079	2 / 6	0.053
Inorganic	Beryllium	mg/kg	0.0031 / 0.0033	ND	0.0056	0.0056	1 / 6	0.0056
Inorganic	Boron	mg/kg	0.06 / 0.065	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0056 / 0.006	ND	0.0083	0.0083	1 / 6	0.0083
Inorganic	Calcium	mg/kg		166	166	2070	6 / 6	650.8
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0051 / 0.0095	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.18	0.18	0.31	6 / 6	0.245
Inorganic	Iron	mg/kg	11.6 / 12.6	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0099 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		268	268	304	6 / 6	279
Inorganic	Manganese	mg/kg		0.12	0.12	0.35	6 / 6	0.1983
Inorganic	Mercury	mg/kg		0.054	0.054	0.14	6 / 6	0.0775
Inorganic	Molybdenum	mg/kg	0.01 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.031 / 0.052	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3730	3730	4030	6 / 6	3827
Inorganic	Selenium	mg/kg		0.45	0.45	0.64	6 / 6	0.5583
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		383	383	508	6 / 6	447
Inorganic	Strontium	mg/kg		0.076	0.076	1.7	6 / 6	0.4677
Inorganic	Thallium	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.051 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.1	5.1	12.5	6 / 6	7.5
Physical Properties	% Lipids	%		0.57	0.57	2.5	6 / 6	1.312
Physical Properties	% Moisture	%		78.2	78.2	80.1	6 / 6	79.3

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-17: TVA Sampling, Spring 2009 - White Crappie Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.819 / 0.85	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.028 / 0.0351	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.1108	0.1108	0.23	4 / 4	0.166
Inorganic	Barium	mg/kg	0.01911 / 0.02	ND	0.0209	0.032	2 / 4	0.02645
Inorganic	Beryllium	mg/kg	0.00312 / 0.0032	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.06045 / 0.062	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00564 / 0.0058	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		99.26	99.26	390.8	4 / 4	220.5
Inorganic	Chromium	mg/kg	0.1151 / 0.12	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.00449 / 0.00481	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.1677 / 0.1693	ND	0.18	0.25	2 / 4	0.215
Inorganic	Iron	mg/kg	11.58 / 12	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.00975 / 0.01	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		247	247	282.2	4 / 4	263.9
Inorganic	Manganese	mg/kg		0.0858	0.0858	0.14	4 / 4	0.1108
Inorganic	Mercury	mg/kg		0.027	0.027	0.0663	4 / 4	0.0525
Inorganic	Molybdenum	mg/kg	0.01 / 0.01024	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.0312 / 0.045	ND	0.23	0.23	1 / 4	0.23
Inorganic	Potassium	mg/kg		3569	3569	3783	4 / 4	3661
Inorganic	Selenium	mg/kg		0.27	0.27	0.53	4 / 4	0.4274
Inorganic	Silver	mg/kg	0.00272 / 0.0029	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		210.6	210.6	366	4 / 4	269.2
Inorganic	Strontium	mg/kg	0.01421 / 0.0312	ND	0.02	0.26	3 / 4	0.17
Inorganic	Thallium	mg/kg	0.01365 / 0.014	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.0507 / 0.053	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		6.162	6.162	6.897	4 / 4	6.615
Physical Properties	% Lipids	%		0.38	0.38	4.3	4 / 4	1.675
Physical Properties	% Moisture	%		79.1	79.1	81.4	4 / 4	80.23

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-18: TVA Sampling, Spring 2009 - White Crappie Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8774 / 0.8904	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.0192 / 0.01929	ND	0.01957	0.01957	1 / 4	0.01957
Inorganic	Arsenic	mg/kg		0.1875	0.1875	0.2544	4 / 4	0.2093
Inorganic	Barium	mg/kg	0.02 / 0.0206	ND	0.024	0.02568	2 / 4	0.02484
Inorganic	Beryllium	mg/kg	0.00318 / 0.0033	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.0636 / 0.0642	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00594 / 0.006	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		135.9	135.9	455.3	4 / 4	297.1
Inorganic	Chromium	mg/kg	0.123 / 0.1241	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.0048 / 0.00494	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.18 / 0.1819	ND	0.36	0.36	1 / 4	0.36
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.01049 / 0.0106	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		262	262	295.3	4 / 4	274.7
Inorganic	Manganese	mg/kg		0.09328	0.09328	0.1627	4 / 4	0.1261
Inorganic	Mercury	mg/kg	0.0042 / 0.0195	ND	0.0309	0.076	2 / 4	0.05345
Inorganic	Molybdenum	mg/kg	0.0108 / 0.01092	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.03296 / 0.03424	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		3540	3540	3702	4 / 4	3613
Inorganic	Selenium	mg/kg		0.4876	0.4876	0.642	4 / 4	0.5763
Inorganic	Silver	mg/kg	0.00297 / 0.00309	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		276	276	313.8	4 / 4	295.5
Inorganic	Strontium	mg/kg	0.015 / 0.03392	ND	0.2472	0.36	2 / 4	0.3036
Inorganic	Thallium	mg/kg	0.01463 / 0.022	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.054 / 0.05564	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		4.665	4.665	6.798	4 / 4	5.632
Physical Properties	% Lipids	%		1.4	1.4	2.1	4 / 4	1.85
Physical Properties	% Moisture	%		78.6	78.6	80	4 / 4	79.2

Notes:

Grab sample results are presented in wet weight.

Table E-19: TVA Sampling, Spring 2009 - White Crappie Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.882 / 0.882	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.01921 / 0.01921	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.196	0.196	0.196	1 / 1	0.196
Inorganic	Barium	mg/kg	0.0196 / 0.0196	ND	ND	ND	0 / 1	0
Inorganic	Beryllium	mg/kg	0.00333 / 0.00333	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.06468 / 0.06468	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.00608 / 0.00608	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		258.7	258.7	258.7	1 / 1	258.7
Inorganic	Chromium	mg/kg	0.1235 / 0.1235	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg	0.0049 / 0.0049	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg		0.3136	0.3136	0.3136	1 / 1	0.3136
Inorganic	Iron	mg/kg	12.47 / 12.47	ND	ND	ND	0 / 1	0
Inorganic	Lead	mg/kg	0.01058 / 0.01058	ND	ND	ND	0 / 1	0
Inorganic	Magnesium	mg/kg		268.5	268.5	268.5	1 / 1	268.5
Inorganic	Manganese	mg/kg		0.1156	0.1156	0.1156	1 / 1	0.1156
Inorganic	Mercury	mg/kg	0.02156 / 0.02156	ND	ND	ND	0 / 1	0
Inorganic	Molybdenum	mg/kg	0.01078 / 0.01078	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg		0.07056	0.07056	0.07056	1 / 1	0.07056
Inorganic	Potassium	mg/kg		3548	3548	3548	1 / 1	3548
Inorganic	Selenium	mg/kg		0.5096	0.5096	0.5096	1 / 1	0.5096
Inorganic	Silver	mg/kg	0.00294 / 0.00294	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		284.2	284.2	284.2	1 / 1	284.2
Inorganic	Strontium	mg/kg		0.1215	0.1215	0.1215	1 / 1	0.1215
Inorganic	Thallium	mg/kg	0.02156 / 0.02156	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.05488 / 0.05488	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		4.998	4.998	4.998	1 / 1	4.998
Physical Properties	% Lipids	%		1.2	1.2	1.2	1 / 1	1.2
Physical Properties	% Moisture	%		80.4	80.4	80.4	1 / 1	80.4

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-20: TVA Sampling, Spring 2009 - White Crappie Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 0.89	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.019 / 0.04	ND	0.023	0.023	1 / 4	0.023
Inorganic	Arsenic	mg/kg		0.22	0.22	0.24	4 / 4	0.23
Inorganic	Barium	mg/kg	0.02 / 0.06	ND	0.03	0.18	3 / 4	0.08533
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.064 / 0.065	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		94.1	94.1	672	4 / 4	434.3
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.0049 / 0.0049	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.18 / 0.18	ND	0.19	0.5	2 / 4	0.345
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		271	271	288	4 / 4	279.5
Inorganic	Manganese	mg/kg		0.13	0.13	0.36	4 / 4	0.2425
Inorganic	Mercury	mg/kg	0.0043 / 0.019	ND	0.028	0.089	3 / 4	0.06167
Inorganic	Molybdenum	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.033 / 0.11	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		3630	3630	3840	4 / 4	3733
Inorganic	Selenium	mg/kg		0.37	0.37	0.5	4 / 4	0.425
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		236	236	266	4 / 4	249
Inorganic	Strontium	mg/kg	0.015 / 0.015	ND	0.25	0.45	3 / 4	0.3633
Inorganic	Thallium	mg/kg	0.015 / 0.018	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.055 / 0.055	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		6.5	6.5	9.6	4 / 4	7.875
Physical Properties	% Lipids	%		0.87	0.87	1.6	4 / 4	1.318
Physical Properties	% Moisture	%		79.5	79.5	80.2	4 / 4	79.75

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table E-21: TVA Sampling, Spring 2009 - White Crappie Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.81 / 0.83	ND	ND	ND	0 / 2	0
Inorganic	Antimony	mg/kg	0.032 / 0.037	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		0.24	0.24	0.29	2 / 2	0.265
Inorganic	Barium	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 2	0
Inorganic	Beryllium	mg/kg	0.003 / 0.0031	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	0.059 / 0.06	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg	0.0055 / 0.0056	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		203	203	359	2 / 2	281
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 2	0
Inorganic	Cobalt	mg/kg	0.0045 / 0.0046	ND	ND	ND	0 / 2	0
Inorganic	Copper	mg/kg	0.17 / 0.17	ND	0.19	0.19	1 / 2	0.19
Inorganic	Iron	mg/kg	11.4 / 11.7	ND	ND	ND	0 / 2	0
Inorganic	Lead	mg/kg	0.0097 / 0.0099	ND	ND	ND	0 / 2	0
Inorganic	Magnesium	mg/kg		292	292	298	2 / 2	295
Inorganic	Manganese	mg/kg		0.094	0.094	0.16	2 / 2	0.127
Inorganic	Mercury	mg/kg		0.0098	0.0098	0.011	2 / 2	0.0104
Inorganic	Molybdenum	mg/kg	0.0099 / 0.01	ND	ND	ND	0 / 2	0
Inorganic	Nickel	mg/kg	0.031 / 0.031	ND	ND	ND	0 / 2	0
Inorganic	Potassium	mg/kg		3670	3670	3800	2 / 2	3735
Inorganic	Selenium	mg/kg		0.33	0.33	0.37	2 / 2	0.35
Inorganic	Silver	mg/kg	0.0027 / 0.0028	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		273	273	312	2 / 2	292.5
Inorganic	Strontium	mg/kg		0.069	0.069	0.18	2 / 2	0.1245
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 2	0
Inorganic	Vanadium	mg/kg	0.05 / 0.051	ND	ND	ND	0 / 2	0
Inorganic	Zinc	mg/kg		4.5	4.5	5.1	2 / 2	4.8
Physical Properties	% Lipids	%		1.5	1.5	2.6	2 / 2	2.05
Physical Properties	% Moisture	%		77.6	77.6	78.6	2 / 2	78.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX F

TWRA Special Request, Summer 2009

Table F- 1: TWRA Special Request, Summer 2009 - Blue Catfish Whole Body at Emory River Mile 6.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.002	5.002	91.44	9 / 9	52.27
Inorganic	Antimony	mg/kg	0.01306 / 0.01484	ND	ND	ND	0 / 9	0
Inorganic	Arsenic	mg/kg	0.0248 / 0.05328	ND	0.03276	0.1569	8 / 9	0.09196
Inorganic	Barium	mg/kg		0.2753	0.2753	3.011	9 / 9	1.504
Inorganic	Beryllium	mg/kg	0.054 / 0.06111	ND	ND	ND	0 / 9	0
Inorganic	Boron	mg/kg	0.372 / 0.4365	ND	ND	ND	0 / 9	0
Inorganic	Cadmium	mg/kg		0.00886	0.00886	0.05235	9 / 9	0.02302
Inorganic	Calcium	mg/kg		2596	2596	38456	9 / 9	16266
Inorganic	Chromium	mg/kg	0.1141 / 0.129	ND	0.1601	1.789	7 / 9	0.5471
Inorganic	Cobalt	mg/kg		0.0145	0.0145	0.1187	9 / 9	0.06644
Inorganic	Copper	mg/kg		0.3289	0.3289	0.5235	9 / 9	0.4443
Inorganic	Iron	mg/kg		39.07	39.07	157.1	9 / 9	92.17
Inorganic	Lead	mg/kg	0.0248 / 0.02694	ND	0.06528	0.2125	8 / 9	0.1116
Inorganic	Magnesium	mg/kg		239.8	239.8	898.2	9 / 9	491.5
Inorganic	Manganese	mg/kg		1.391	1.391	21.74	9 / 9	12.38
Inorganic	Mercury	mg/kg		0.02976	0.02976	0.1989	9 / 9	0.05733
Inorganic	Molybdenum	mg/kg	0.03224 / 0.03553	ND	0.04032	0.04032	1 / 9	0.04032
Inorganic	Nickel	mg/kg	0.08704 / 0.09894	ND	0.1338	0.8316	6 / 9	0.3183
Inorganic	Potassium	mg/kg		2646	2646	3618	9 / 9	3072
Inorganic	Selenium	mg/kg		0.372	0.372	0.6688	9 / 9	0.5343
Inorganic	Silver	mg/kg	0.00261 / 0.00304	ND	0.00279	0.00279	1 / 9	0.002792
Inorganic	Sodium	mg/kg		1018	1018	1675	9 / 9	1251
Inorganic	Strontium	mg/kg		2.117	2.117	25.2	9 / 9	12.96
Inorganic	Thallium	mg/kg	0.0124 / 0.01426	ND	ND	ND	0 / 9	0
Inorganic	Vanadium	mg/kg	0.0408 / 0.0444	ND	0.1188	0.2282	8 / 9	0.1619
Inorganic	Zinc	mg/kg		14.53	14.53	33.96	9 / 9	23.54
Physical Properties	% Lipids	%		2.3	2.3	6.8	9 / 9	4.178
Physical Properties	% Moisture	%		70.4	70.4	79.1	4 / 4	74.85

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 2: TWRA Special Request, Summer 2009 - Channel Catfish Ovary at Emory River Mile 6.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 4	ND	6.6	8.3	2 / 5	7.45
Inorganic	Antimony	mg/kg	0.019 / 0.0192	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.0156 / 0.016	ND	ND	ND	0 / 5	0
Inorganic	Barium	mg/kg		0.34	0.34	0.63	5 / 5	0.514
Inorganic	Beryllium	mg/kg	0.0033 / 0.01	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.064 / 0.15	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.006 / 0.006	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		843	843	1090	5 / 5	970.8
Inorganic	Chromium	mg/kg	0.12 / 0.124	ND	0.14	0.29	2 / 5	0.215
Inorganic	Cobalt	mg/kg		0.053	0.053	0.07	5 / 5	0.0622
Inorganic	Copper	mg/kg		0.97	0.97	1.1	5 / 5	1.054
Inorganic	Iron	mg/kg		15	15	22.6	5 / 5	17.49
Inorganic	Lead	mg/kg		0.013	0.013	0.031	5 / 5	0.02012
Inorganic	Magnesium	mg/kg		389.2	389.2	484	5 / 5	456.2
Inorganic	Manganese	mg/kg		2.9	2.9	6.28	5 / 5	5.116
Inorganic	Mercury	mg/kg	0.0043 / 0.0066	ND	ND	ND	0 / 5	0
Inorganic	Molybdenum	mg/kg	0.011 / 0.022	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.0332 / 0.13	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2040	2040	2290	5 / 5	2186
Inorganic	Selenium	mg/kg		1.1	1.1	1.9	5 / 5	1.456
Inorganic	Silver	mg/kg	0.003 / 0.0064	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		380	380	568	5 / 5	477.6
Inorganic	Strontium	mg/kg		1.5	1.5	2.64	5 / 5	1.888
Inorganic	Thallium	mg/kg	0.0144 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.055 / 0.056	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		31.3	31.3	52.5	5 / 5	39.14
Physical Properties	% Lipids	%		8.1	8.1	13.4	5 / 5	10.06

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 3: TWRA Special Request, Summer 2009 - Channel Catfish Whole Body at Emory River Mile 6.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 4.8	ND	20.2	50.88	3 / 9	32.46
Inorganic	Antimony	mg/kg	0.019 / 0.01931	ND	ND	ND	0 / 9	0
Inorganic	Arsenic	mg/kg		0.02	0.02	0.1421	9 / 9	0.04711
Inorganic	Barium	mg/kg		0.64	0.64	2.101	9 / 9	1.375
Inorganic	Beryllium	mg/kg	0.0033 / 0.01006	ND	ND	ND	0 / 9	0
Inorganic	Boron	mg/kg	0.06386 / 0.13	ND	ND	ND	0 / 9	0
Inorganic	Cadmium	mg/kg	0.00597 / 0.006	ND	0.0061	0.0117	7 / 9	0.008023
Inorganic	Calcium	mg/kg		4800	4800	24900	9 / 9	11004
Inorganic	Chromium	mg/kg	0.12 / 0.1224	ND	0.13	0.88	5 / 9	0.347
Inorganic	Cobalt	mg/kg	0.0049 / 0.022	ND	0.034	0.055	7 / 9	0.04356
Inorganic	Copper	mg/kg		0.2584	0.2584	3.9	9 / 9	1.04
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	13.08	57.89	6 / 9	34.45
Inorganic	Lead	mg/kg		0.046	0.046	0.25	9 / 9	0.1009
Inorganic	Magnesium	mg/kg		236	236	546	9 / 9	333.2
Inorganic	Manganese	mg/kg		3.7	3.7	12.77	9 / 9	6.615
Inorganic	Mercury	mg/kg	0.0043 / 0.03296	ND	0.039	0.095	3 / 9	0.06367
Inorganic	Molybdenum	mg/kg	0.011 / 0.062	ND	ND	ND	0 / 9	0
Inorganic	Nickel	mg/kg	0.03264 / 0.2	ND	0.04624	0.76	4 / 9	0.3395
Inorganic	Potassium	mg/kg		2280	2280	2650	9 / 9	2454
Inorganic	Selenium	mg/kg		0.3	0.3	0.43	9 / 9	0.3579
Inorganic	Silver	mg/kg	0.00288 / 0.003	ND	ND	ND	0 / 9	0
Inorganic	Sodium	mg/kg		729	729	1190	9 / 9	926.6
Inorganic	Strontium	mg/kg		3.5	3.5	22.3	9 / 9	9.839
Inorganic	Thallium	mg/kg	0.01463 / 0.015	ND	ND	ND	0 / 9	0
Inorganic	Vanadium	mg/kg	0.0544 / 0.055	ND	0.07	0.1607	3 / 9	0.1005
Inorganic	Zinc	mg/kg		14.1	14.1	30.7	9 / 9	20.72
Physical Properties	% Lipids	%		4.1	4.1	10.2	9 / 9	6.122
Physical Properties	% Moisture	%		68.9	68.9	79.4	9 / 9	74.46

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 4: TWRA Special Request, Summer 2009 - Channel Catfish Ovary at Emory River Mile 0.7

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.874 / 3.696	ND	5.856	5.856	1 / 3	5.856
Inorganic	Antimony	mg/kg	0.019 / 0.01932	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.01554 / 0.016	ND	0.03696	0.03696	1 / 3	0.03696
Inorganic	Barium	mg/kg		0.22	0.22	0.3192	3 / 3	0.2642
Inorganic	Beryllium	mg/kg	0.0033 / 0.01008	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.063 / 0.26	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00588 / 0.00612	ND	0.01596	0.01596	1 / 3	0.01596
Inorganic	Calcium	mg/kg		882	882	957	3 / 3	908
Inorganic	Chromium	mg/kg		0.1302	0.1302	0.1661	3 / 3	0.1488
Inorganic	Cobalt	mg/kg		0.056	0.056	0.0966	3 / 3	0.07563
Inorganic	Copper	mg/kg		1.093	1.093	1.9	3 / 3	1.39
Inorganic	Iron	mg/kg		19.03	19.03	20.67	3 / 3	20.1
Inorganic	Lead	mg/kg		0.016	0.016	0.0462	3 / 3	0.02889
Inorganic	Magnesium	mg/kg		436.8	436.8	474	3 / 3	449.3
Inorganic	Manganese	mg/kg		3.4	3.4	4.41	3 / 3	3.885
Inorganic	Mercury	mg/kg	0.0077 / 0.01224	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.01748 / 0.03738	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.0336 / 0.055	ND	0.05244	0.0588	2 / 3	0.05562
Inorganic	Potassium	mg/kg		1911	1911	2150	3 / 3	2069
Inorganic	Selenium	mg/kg		1.4	1.4	1.879	3 / 3	1.569
Inorganic	Silver	mg/kg	0.00298 / 0.0045	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		392.3	392.3	469	3 / 3	438.6
Inorganic	Strontium	mg/kg		1.136	1.136	1.7	3 / 3	1.505
Inorganic	Thallium	mg/kg	0.01442 / 0.02646	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.0546 / 0.055	ND	0.05681	0.0672	2 / 3	0.06201
Inorganic	Zinc	mg/kg		36.14	36.14	55.44	3 / 3	44.86
Physical Properties	% Lipids	%		8.3	8.3	10.3	2 / 2	9.3
Physical Properties	% Moisture	%		58.7	58.7	58.7	1 / 1	58.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 5: TWRA Special Request, Summer 2009 - Channel Catfish Whole Body at Emory River Mile 0.7

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 1.544	ND	6.8	18.2	6 / 7	14.6
Inorganic	Antimony	mg/kg	0.019 / 0.01936	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.01802	0.01802	0.17	7 / 7	0.08833
Inorganic	Barium	mg/kg		0.6318	0.6318	3.219	7 / 7	2.126
Inorganic	Beryllium	mg/kg	0.0033 / 0.01006	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.06394 / 0.25	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.00584 / 0.006	ND	0.00842	0.031	6 / 7	0.01567
Inorganic	Calcium	mg/kg		12379	12379	48600	7 / 7	25188
Inorganic	Chromium	mg/kg	0.12 / 0.124	ND	0.12	0.43	3 / 7	0.2519
Inorganic	Cobalt	mg/kg		0.02574	0.02574	0.05082	7 / 7	0.03734
Inorganic	Copper	mg/kg		0.2808	0.2808	1.529	7 / 7	0.7994
Inorganic	Iron	mg/kg	12.4 / 12.5	ND	19.5	30.55	5 / 7	25.49
Inorganic	Lead	mg/kg		0.075	0.075	0.363	7 / 7	0.1762
Inorganic	Magnesium	mg/kg		369.7	369.7	939	7 / 7	578.5
Inorganic	Manganese	mg/kg		3.346	3.346	21.34	7 / 7	10.86
Inorganic	Mercury	mg/kg	0.0043 / 0.0468	ND	0.043	0.043	1 / 7	0.043
Inorganic	Molybdenum	mg/kg	0.01076 / 0.02662	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.03276 / 0.22	ND	0.04212	0.32	5 / 7	0.1839
Inorganic	Potassium	mg/kg		2492	2492	2904	7 / 7	2687
Inorganic	Selenium	mg/kg		0.2697	0.2697	0.5148	7 / 7	0.3826
Inorganic	Silver	mg/kg	0.0029 / 0.0054	ND	0.00445	0.00726	2 / 7	0.005854
Inorganic	Sodium	mg/kg		921.9	921.9	1390	7 / 7	1056
Inorganic	Strontium	mg/kg		6.997	6.997	31	7 / 7	19.01
Inorganic	Thallium	mg/kg	0.01446 / 0.0167	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg		0.05838	0.05838	0.2105	7 / 7	0.1268
Inorganic	Zinc	mg/kg		22.4	22.4	32.6	7 / 7	25.94
Physical Properties	% Lipids	%		2.8	2.8	7.8	7 / 7	5.443
Physical Properties	% Moisture	%		72	72	76.6	7 / 7	73.57

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 6: TWRA Special Request, Summer 2009 - Largemouth Bass Whole Body at Emory River Mile 6.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4.017 / 7.56	ND	14.8	27.09	2 / 5	20.95
Inorganic	Antimony	mg/kg	0.0145 / 0.02736	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.1548	0.1548	0.3234	5 / 5	0.2296
Inorganic	Barium	mg/kg		0.9579	0.9579	1.393	5 / 5	1.15
Inorganic	Beryllium	mg/kg	0.05871 / 0.1116	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.4017 / 2.116	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.00755 / 0.02916	ND	0.01832	0.04326	2 / 5	0.03079
Inorganic	Calcium	mg/kg		9455	9455	33282	5 / 5	21961
Inorganic	Chromium	mg/kg	0.1267 / 0.1294	ND	0.576	11.77	3 / 5	5.328
Inorganic	Cobalt	mg/kg	0.01411 / 0.07224	ND	0.02114	0.1205	2 / 5	0.07082
Inorganic	Copper	mg/kg	0.145 / 0.7482	ND	0.3234	0.8034	4 / 5	0.512
Inorganic	Iron	mg/kg	12.11 / 61.92	ND	12.73	77.87	3 / 5	36.58
Inorganic	Lead	mg/kg	0.02809 / 0.054	ND	0.05562	0.06708	2 / 5	0.06135
Inorganic	Magnesium	mg/kg		451.1	451.1	843.8	5 / 5	669
Inorganic	Manganese	mg/kg		1.721	1.721	8.617	5 / 5	3.679
Inorganic	Mercury	mg/kg		0.0618	0.0618	0.144	5 / 5	0.1126
Inorganic	Molybdenum	mg/kg	0.03399 / 0.0648	ND	0.07224	0.1916	2 / 5	0.1319
Inorganic	Nickel	mg/kg	0.09664 / 0.09996	ND	0.2484	5.253	3 / 5	2.384
Inorganic	Potassium	mg/kg		2350	2350	4057	5 / 5	3197
Inorganic	Selenium	mg/kg		0.576	0.576	0.774	5 / 5	0.6501
Inorganic	Silver	mg/kg	0.0029 / 0.0054	ND	0.00335	0.00371	2 / 5	0.003531
Inorganic	Sodium	mg/kg		993.6	993.6	1711	5 / 5	1320
Inorganic	Strontium	mg/kg		6.582	6.582	24.61	5 / 5	16.62
Inorganic	Thallium	mg/kg	0.01382 / 0.02592	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.0453 / 0.0864	ND	0.1112	1.832	2 / 5	0.9716
Inorganic	Zinc	mg/kg		14.91	14.91	29.15	5 / 5	19.53
Physical Properties	% Lipids	%		0.7	0.7	4.2	5 / 5	2.028
Physical Properties	% Moisture	%		64	64	74.2	3 / 3	69.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table F- 7: TWRA Special Request, Summer 2009 - Largemouth Bass Whole Body at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.641 / 40.87	ND	4.724	9.263	4 / 7	6.761
Inorganic	Antimony	mg/kg	0.01303 / 0.01495	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.1252	0.1252	0.5004	7 / 7	0.28
Inorganic	Barium	mg/kg		0.1827	0.1827	1.877	7 / 7	0.6534
Inorganic	Beryllium	mg/kg	0.05344 / 0.06255	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.3674 / 0.4225	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.00701 / 0.00792	ND	ND	ND	0 / 7	0
Inorganic	Calcium	mg/kg		4855	4855	55044	7 / 7	19007
Inorganic	Chromium	mg/kg	0.1136 / 1.293	ND	0.1169	1.07	4 / 7	0.5815
Inorganic	Cobalt	mg/kg	0.01269 / 0.1418	ND	0.01412	0.0261	6 / 7	0.02107
Inorganic	Copper	mg/kg	0.1303 / 1.46	ND	0.3388	0.4494	6 / 7	0.3877
Inorganic	Iron	mg/kg	10.96 / 123	ND	14.85	23.69	4 / 7	18.84
Inorganic	Lead	mg/kg	0.02538 / 0.0286	ND	0.04587	0.04587	1 / 7	0.04587
Inorganic	Magnesium	mg/kg		315.5	315.5	1301	7 / 7	591.3
Inorganic	Manganese	mg/kg		0.5778	0.5778	5.945	7 / 7	2.588
Inorganic	Mercury	mg/kg		0.03859	0.03859	0.06741	7 / 7	0.05239
Inorganic	Molybdenum	mg/kg	0.03206 / 0.03575	ND	0.03836	0.03836	1 / 7	0.03836
Inorganic	Nickel	mg/kg	0.08988 / 1.001	ND	0.1788	0.4959	3 / 7	0.3308
Inorganic	Potassium	mg/kg		2974	2974	3674	7 / 7	3246
Inorganic	Selenium	mg/kg		0.6356	0.6356	0.9396	7 / 7	0.811
Inorganic	Silver	mg/kg	0.00261 / 0.00299	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		903.5	903.5	1810	7 / 7	1249
Inorganic	Strontium	mg/kg		3.811	3.811	44.2	7 / 7	14.48
Inorganic	Thallium	mg/kg	0.01252 / 0.05004	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.04008 / 0.4587	ND	ND	ND	0 / 7	0
Inorganic	Zinc	mg/kg		9.983	9.983	22.39	7 / 7	16.28
Physical Properties	% Lipids	%		1.8	1.8	7.8	7 / 7	4.071
Physical Properties	% Moisture	%		66.6	66.6	73.9	2 / 2	70.25

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX G

TVA Swan Pond Embayment, Summer 2009

Table G- 1: TVA Swan Pond Embayment, Summer 2009 - Bluegill Whole Body at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		37.1	37.1	81.4	5 / 5	55.24
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.44	0.44	0.63	5 / 5	0.524
Inorganic	Barium	mg/kg		2.5	2.5	3.9	5 / 5	3.12
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		14900	14900	17300	5 / 5	16160
Inorganic	Chromium	mg/kg	0.15 / 0.21	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	0.62	0.62	1 / 5	0.62
Inorganic	Iron	mg/kg		49.8	49.8	87.9	5 / 5	69.58
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	0.11	0.11	1 / 5	0.11
Inorganic	Magnesium	mg/kg		442	442	488	5 / 5	468
Inorganic	Manganese	mg/kg		65.7	65.7	90.6	5 / 5	74.36
Inorganic	Mercury	mg/kg	0.02 / 0.023	ND	0.025	0.03	2 / 5	0.0275
Inorganic	Molybdenum	mg/kg		1	1	1.2	5 / 5	1.1
Inorganic	Nickel	mg/kg	0.12 / 0.22	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2470	2470	2600	5 / 5	2568
Inorganic	Selenium	mg/kg		1.2	1.2	1.5	5 / 5	1.32
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		918	918	984	5 / 5	945.4
Inorganic	Strontium	mg/kg		21.1	21.1	25.1	5 / 5	23.16
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg		0.22	0.22	0.36	5 / 5	0.286
Inorganic	Zinc	mg/kg		22.9	22.9	27.5	5 / 5	24.7
Physical Properties	% Lipids	%		1.6	1.6	3.6	5 / 5	2.66
Physical Properties	% Moisture	%		73.4	73.4	74.3	5 / 5	73.96

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table G- 2: TVA Swan Pond Embayment, Summer 2009 - Bluegill Whole Body (Minus Gut) at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	24.9 / 24.9	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.22	0.22	0.22	1 / 1	0.22
Inorganic	Barium	mg/kg		2.5	2.5	2.5	1 / 1	2.5
Inorganic	Beryllium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		27700	27700	27700	1 / 1	27700
Inorganic	Chromium	mg/kg	0.14 / 0.14	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg		27.2	27.2	27.2	1 / 1	27.2
Inorganic	Lead	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Magnesium	mg/kg		608	608	608	1 / 1	608
Inorganic	Manganese	mg/kg		40.5	40.5	40.5	1 / 1	40.5
Inorganic	Mercury	mg/kg		0.027	0.027	0.027	1 / 1	0.027
Inorganic	Molybdenum	mg/kg	0.99 / 0.99	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		2360	2360	2360	1 / 1	2360
Inorganic	Selenium	mg/kg		1.1	1.1	1.1	1 / 1	1.1
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1200	1200	1200	1 / 1	1200
Inorganic	Strontium	mg/kg		36.2	36.2	36.2	1 / 1	36.2
Inorganic	Thallium	mg/kg	0.099 / 0.099	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		26.7	26.7	26.7	1 / 1	26.7
Physical Properties	% Lipids	%		2	2	2	1 / 1	2
Physical Properties	% Moisture	%		73.6	73.6	73.6	1 / 1	73.6

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table G- 3: TVA Swan Pond Embayment, Summer 2009 - Gizzard Shad Whole Body at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		672	672	711	2 / 2	691.5
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		1.8	1.8	2.2	2 / 2	2
Inorganic	Barium	mg/kg		9.1	9.1	11.1	2 / 2	10.1
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		7420	7420	12300	2 / 2	9860
Inorganic	Chromium	mg/kg		1.5	1.5	2.1	2 / 2	1.8
Inorganic	Cobalt	mg/kg		0.41	0.41	0.47	2 / 2	0.44
Inorganic	Copper	mg/kg		1.9	1.9	2.2	2 / 2	2.05
Inorganic	Iron	mg/kg		684	684	735	2 / 2	709.5
Inorganic	Lead	mg/kg		0.76	0.76	0.78	2 / 2	0.77
Inorganic	Magnesium	mg/kg		310	310	367	2 / 2	338.5
Inorganic	Manganese	mg/kg		60.7	60.7	77.5	2 / 2	69.1
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	ND	ND	0 / 2	0
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 2	0
Inorganic	Nickel	mg/kg		0.85	0.85	1	2 / 2	0.925
Inorganic	Potassium	mg/kg		2440	2440	2620	2 / 2	2530
Inorganic	Selenium	mg/kg		1.4	1.4	1.5	2 / 2	1.45
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		878	878	939	2 / 2	908.5
Inorganic	Strontium	mg/kg		8.9	8.9	12.9	2 / 2	10.9
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 2	0
Inorganic	Vanadium	mg/kg		1.4	1.4	1.6	2 / 2	1.5
Inorganic	Zinc	mg/kg		15.6	15.6	17.9	2 / 2	16.75
Physical Properties	% Lipids	%		3	3	4.8	2 / 2	3.9
Physical Properties	% Moisture	%		75.2	75.2	75.6	2 / 2	75.4

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table G- 4: TVA Swan Pond Embayment, Summer 2009 - Largemouth Bass Whole Body (Minus Gut) at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections	
Inorganic	Aluminum	mg/kg	24.8 / 24.9	ND	ND	ND	0 / 5	0	
Inorganic	Antimony	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Arsenic	mg/kg	0.099 / 0.1	ND	0.14	0.17	3 / 5	0.16	
Inorganic	Barium	mg/kg		0.49	0.49	1.3	5 / 5	0.962	
Inorganic	Beryllium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 5	0	
Inorganic	Cadmium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Calcium	mg/kg		14400	14400	27100	5 / 5	20900	
Inorganic	Chromium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Cobalt	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 5	0	
Inorganic	Iron	mg/kg	24.8 / 24.9	ND	ND	ND	0 / 5	0	
Inorganic	Lead	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Magnesium	mg/kg		469	469	664	5 / 5	573.6	
Inorganic	Manganese	mg/kg			1.6	1.6	5.3	5 / 5	3.16
Inorganic	Mercury	mg/kg		0.048	0.048	0.084	5 / 5	0.0586	
Inorganic	Molybdenum	mg/kg	0.99 / 1	ND	ND	ND	0 / 5	0	
Inorganic	Nickel	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Potassium	mg/kg		2410	2410	3050	5 / 5	2678	
Inorganic	Selenium	mg/kg		0.93	0.93	1.1	5 / 5	1.012	
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 5	0	
Inorganic	Sodium	mg/kg		980	980	1420	5 / 5	1236	
Inorganic	Strontium	mg/kg		12.4	12.4	24.6	5 / 5	19.08	
Inorganic	Thallium	mg/kg	0.099 / 0.1	ND	ND	ND	0 / 5	0	
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 5	0	
Inorganic	Zinc	mg/kg		17	17	26.4	5 / 5	20.84	
Physical Properties	% Lipids	%		0.38	0.38	0.98	5 / 5	0.608	
Physical Properties	% Moisture	%		71.9	71.9	76.1	5 / 5	74.86	

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table G- 5: TVA Swan Pond Embayment, Summer 2009 - Red Ear Sunfish Whole Body at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		51.2	51.2	51.2	1 / 1	51.2
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.54	0.54	0.54	1 / 1	0.54
Inorganic	Barium	mg/kg		3.7	3.7	3.7	1 / 1	3.7
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		14800	14800	14800	1 / 1	14800
Inorganic	Chromium	mg/kg	0.15 / 0.15	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg		67.8	67.8	67.8	1 / 1	67.8
Inorganic	Lead	mg/kg		0.11	0.11	0.11	1 / 1	0.11
Inorganic	Magnesium	mg/kg		414	414	414	1 / 1	414
Inorganic	Manganese	mg/kg		47.1	47.1	47.1	1 / 1	47.1
Inorganic	Mercury	mg/kg	0.02 / 0.02	ND	ND	ND	0 / 1	0
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		2790	2790	2790	1 / 1	2790
Inorganic	Selenium	mg/kg		1.7	1.7	1.7	1 / 1	1.7
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		947	947	947	1 / 1	947
Inorganic	Strontium	mg/kg		22.2	22.2	22.2	1 / 1	22.2
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg		0.27	0.27	0.27	1 / 1	0.27
Inorganic	Zinc	mg/kg		18	18	18	1 / 1	18
Physical Properties	% Lipids	%		2.6	2.6	2.6	1 / 1	2.6
Physical Properties	% Moisture	%		74.7	74.7	74.7	1 / 1	74.7

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table G- 6: TVA Swan Pond Embayment, Summer 2009 - Red Ear Sunfish Whole Body (Minus Gut) at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	25 / 25	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.33	0.33	0.33	1 / 1	0.33
Inorganic	Barium	mg/kg		3.5	3.5	3.5	1 / 1	3.5
Inorganic	Beryllium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	2 / 2	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		24900	24900	24900	1 / 1	24900
Inorganic	Chromium	mg/kg	0.23 / 0.23	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg	0.5 / 0.5	ND	ND	ND	0 / 1	0
Inorganic	Iron	mg/kg		31.5	31.5	31.5	1 / 1	31.5
Inorganic	Lead	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Magnesium	mg/kg		557	557	557	1 / 1	557
Inorganic	Manganese	mg/kg		13.4	13.4	13.4	1 / 1	13.4
Inorganic	Mercury	mg/kg		0.035	0.035	0.035	1 / 1	0.035
Inorganic	Molybdenum	mg/kg	1 / 1	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg	0.14 / 0.14	ND	ND	ND	0 / 1	0
Inorganic	Potassium	mg/kg		2520	2520	2520	1 / 1	2520
Inorganic	Selenium	mg/kg		1.2	1.2	1.2	1 / 1	1.2
Inorganic	Silver	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1420	1420	1420	1 / 1	1420
Inorganic	Strontium	mg/kg		21.9	21.9	21.9	1 / 1	21.9
Inorganic	Thallium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.2 / 0.2	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		27.8	27.8	27.8	1 / 1	27.8
Physical Properties	% Lipids	%		0.69	0.69	0.69	1 / 1	0.69
Physical Properties	% Moisture	%		73.4	73.4	73.4	1 / 1	73.4

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX H

TVA Sampling, Fall 2009

Table H- 1: TVA Sampling, Fall 2009 - Bluegill Carcass at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		6.682	6.682	56.6	4 / 4	29.73
Inorganic	Antimony	mg/kg	0.01436 / 0.01479	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.2871	0.2871	0.392	4 / 4	0.3271
Inorganic	Barium	mg/kg		3.628	3.628	7.859	4 / 4	6.042
Inorganic	Beryllium	mg/kg	0.02871 / 0.0294	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.4165 / 0.435	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.0319 / 0.04959	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		23490	23490	74725	4 / 4	38684
Inorganic	Chromium	mg/kg		0.29	0.29	0.6003	4 / 4	0.4356
Inorganic	Cobalt	mg/kg	0.0248 / 0.08091	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg		0.3654	0.3654	0.4437	4 / 4	0.4007
Inorganic	Iron	mg/kg		17.1	17.1	70.07	4 / 4	46.09
Inorganic	Lead	mg/kg	0.02871 / 0.1789	ND	0.261	0.261	1 / 4	0.261
Inorganic	Magnesium	mg/kg		1188	1188	1740	4 / 4	1365
Inorganic	Manganese	mg/kg		19.58	19.58	69.83	4 / 4	48.17
Inorganic	Mercury	mg/kg		0.0174	0.0174	0.02062	4 / 4	0.01944
Inorganic	Molybdenum	mg/kg	0.1054 / 0.154	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg		0.4698	0.4698	0.7105	4 / 4	0.5561
Inorganic	Potassium	mg/kg	3210 / 3741	ND	ND	ND	0 / 4	0
Inorganic	Selenium	mg/kg		0.464	0.464	0.4959	4 / 4	0.4799
Inorganic	Silver	mg/kg	0.00287 / 0.00294	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1656	1656	2383	4 / 4	1962
Inorganic	Strontium	mg/kg		21.14	21.14	60.27	4 / 4	43.9
Inorganic	Thallium	mg/kg	0.01227 / 0.01421	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg		0.04655	0.04655	0.4176	4 / 4	0.1689
Inorganic	Zinc	mg/kg		23.57	23.57	49.25	4 / 4	40

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 2: TVA Sampling, Fall 2009 - Bluegill Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 2.3	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.016 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.014 / 0.068	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg		0.031	0.031	0.16	6 / 6	0.1022
Inorganic	Beryllium	mg/kg	0.0028 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.054 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0051 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		133	133	1280	6 / 6	719
Inorganic	Chromium	mg/kg	0.1 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0041 / 0.0071	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2	0.2	0.38	6 / 6	0.2733
Inorganic	Iron	mg/kg	10.5 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0089 / 0.053	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		223	223	340	6 / 6	282.7
Inorganic	Manganese	mg/kg		0.16	0.16	1.4	6 / 6	0.7633
Inorganic	Mercury	mg/kg	0.026 / 0.037	ND	ND	ND	0 / 6	0
Inorganic	Molybdenum	mg/kg	0.0091 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.028 / 0.03	ND	0.034	0.055	5 / 6	0.042
Inorganic	Potassium	mg/kg		2810	2810	4420	6 / 6	3530
Inorganic	Selenium	mg/kg		0.44	0.44	0.53	6 / 6	0.4867
Inorganic	Silver	mg/kg	0.0025 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		256	256	324	6 / 6	284.3
Inorganic	Strontium	mg/kg		0.11	0.11	1.4	6 / 6	0.695
Inorganic	Thallium	mg/kg	0.012 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.046 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.4	8.4	21.5	6 / 6	15.83
Physical Properties	% Lipids	%		0.18	0.18	0.61	6 / 6	0.35

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 3: TVA Sampling, Fall 2009 - Bluegill Carcass at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.854 / 4.014	ND	5.396	9.373	3 / 4	7.925
Inorganic	Antimony	mg/kg	0.01402 / 0.01469	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.1067	0.1067	0.2628	4 / 4	0.1936
Inorganic	Barium	mg/kg		1.358	1.358	2.737	4 / 4	2.13
Inorganic	Beryllium	mg/kg	0.02847 / 0.03081	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.3942 / 0.4301	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00745 / 0.04977	ND	0.1489	0.1489	1 / 4	0.1489
Inorganic	Calcium	mg/kg		15660	15660	24946	4 / 4	20454
Inorganic	Chromium	mg/kg		0.4176	0.4176	0.5865	4 / 4	0.4727
Inorganic	Cobalt	mg/kg	0.01624 / 0.04977	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg		0.3712	0.3712	0.4503	4 / 4	0.4117
Inorganic	Iron	mg/kg		14.23	14.23	18.68	4 / 4	16.81
Inorganic	Lead	mg/kg	0.05694 / 0.1469	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		462.2	462.2	1118	4 / 4	710
Inorganic	Manganese	mg/kg		14.72	14.72	34.99	4 / 4	22.12
Inorganic	Mercury	mg/kg		0.0219	0.0219	0.07888	4 / 4	0.04072
Inorganic	Molybdenum	mg/kg	0.03504 / 0.0948	ND	0.2409	0.2409	1 / 4	0.2409
Inorganic	Nickel	mg/kg		0.2607	0.2607	0.4692	4 / 4	0.3352
Inorganic	Potassium	mg/kg	746.6 / 3531	ND	2441	2441	1 / 4	2441
Inorganic	Selenium	mg/kg		0.2784	0.2784	0.7227	4 / 4	0.543
Inorganic	Silver	mg/kg	0.00278 / 0.00545	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1240	1240	1768	4 / 4	1505
Inorganic	Strontium	mg/kg		19.53	19.53	30.62	4 / 4	24.45
Inorganic	Thallium	mg/kg	0.01253 / 0.03285	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg		0.07424	0.07424	0.3942	4 / 4	0.1716
Inorganic	Zinc	mg/kg		22.34	22.34	51.97	4 / 4	33.29

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 4: TVA Sampling, Fall 2009 - Bluegill Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.76 / 2.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.016 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.013 / 0.034	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.028 / 0.19	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0028 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.055 / 0.099	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0051 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		127	127	1400	6 / 6	752.3
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0046 / 0.0049	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.21	0.21	0.35	6 / 6	0.265
Inorganic	Iron	mg/kg	10.7 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.009 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		212	212	320	6 / 6	276.8
Inorganic	Manganese	mg/kg		0.15	0.15	1.5	6 / 6	0.8
Inorganic	Mercury	mg/kg	0.0037 / 0.037	ND	0.042	0.12	4 / 6	0.06575
Inorganic	Molybdenum	mg/kg	0.0093 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.029 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2670	2670	3890	6 / 6	3428
Inorganic	Selenium	mg/kg		0.27	0.27	0.89	6 / 6	0.5517
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		232	232	293	6 / 6	272.5
Inorganic	Strontium	mg/kg	0.013 / 0.1	ND	0.17	1.5	5 / 6	0.81
Inorganic	Thallium	mg/kg	0.013 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.047 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.6	7.6	19.3	6 / 6	14.6
Physical Properties	% Lipids	%		0.38	0.38	1	6 / 6	0.5417

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 5: TVA Sampling, Fall 2009 - Bluegill Carcass at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	18.18 / 19.97	ND	23.29	23.29	1 / 4	23.29
Inorganic	Antimony	mg/kg	0.0132 / 0.01456	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg	0.1265 / 0.1404	ND	0.1458	0.1531	2 / 4	0.1495
Inorganic	Barium	mg/kg		1.585	1.585	4.794	4 / 4	3.25
Inorganic	Beryllium	mg/kg	0.1348 / 0.1481	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	1.87 / 2.083	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.03765 / 0.07608	ND	0.05616	0.2761	2 / 4	0.1661
Inorganic	Calcium	mg/kg		23395	23395	47850	4 / 4	37717
Inorganic	Chromium	mg/kg	0.5775 / 0.6526	ND	0.6669	0.6974	2 / 4	0.6822
Inorganic	Cobalt	mg/kg	0.06325 / 0.07028	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.66 / 0.7371	ND	ND	ND	0 / 4	0
Inorganic	Iron	mg/kg	54.73 / 60.99	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg		0.05072	0.05072	0.11	4 / 4	0.08985
Inorganic	Magnesium	mg/kg		586.5	586.5	1001	4 / 4	847.2
Inorganic	Manganese	mg/kg		13.79	13.79	33.27	4 / 4	21.99
Inorganic	Mercury	mg/kg		0.02134	0.02134	0.02808	4 / 4	0.02435
Inorganic	Molybdenum	mg/kg	0.1595 / 0.1782	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.44 / 0.502	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		2038	2038	2431	4 / 4	2188
Inorganic	Selenium	mg/kg		0.605	0.605	0.7608	4 / 4	0.6814
Inorganic	Silver	mg/kg	0.0132 / 0.01456	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1706	1706	1905	4 / 4	1808
Inorganic	Strontium	mg/kg		25.04	25.04	47.03	4 / 4	38.45
Inorganic	Thallium	mg/kg	0.01265 / 0.01406	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.4125 / 0.4563	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		39.31	39.31	48.44	4 / 4	45.03

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 6: TVA Sampling, Fall 2009 - Bluegill Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8256 / 1.303	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.0171 / 0.01991	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.03165 / 0.0679	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.01991 / 0.1071	ND	0.1991	0.1991	1 / 6	0.1991
Inorganic	Beryllium	mg/kg	0.00291 / 0.00615	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.0582 / 0.1358	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00547 / 0.02626	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		155.6	155.6	2082	6 / 6	929.3
Inorganic	Chromium	mg/kg	0.1125 / 0.1231	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.00485 / 0.01394	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.3096	0.3096	0.6076	6 / 6	0.4221
Inorganic	Iron	mg/kg	11.35 / 12.42	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0097 / 0.01738	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		247.7	247.7	340.7	6 / 6	282.5
Inorganic	Manganese	mg/kg		0.194	0.194	1.412	6 / 6	0.5553
Inorganic	Mercury	mg/kg		0.02716	0.02716	0.05454	6 / 6	0.03946
Inorganic	Molybdenum	mg/kg	0.00989 / 0.01086	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.03249	0.03249	0.04887	6 / 6	0.03829
Inorganic	Potassium	mg/kg		3251	3251	4383	6 / 6	3541
Inorganic	Selenium	mg/kg		0.684	0.684	0.9548	6 / 6	0.8241
Inorganic	Silver	mg/kg	0.00272 / 0.00308	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		225	225	439.8	6 / 6	342.9
Inorganic	Strontium	mg/kg		0.1145	0.1145	2.299	6 / 6	0.9512
Inorganic	Thallium	mg/kg	0.01351 / 0.02715	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.05044 / 0.0543	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		10.54	10.54	15.62	6 / 6	13.11
Physical Properties	% Lipids	%		0.18	0.18	0.49	6 / 6	0.33

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 7: TVA Sampling, Fall 2009 - Bluegill Carcass at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.618 / 3.676	ND	5.494	30.07	3 / 4	13.95
Inorganic	Antimony	mg/kg	0.01306 / 0.01462	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.392	0.392	0.4896	4 / 4	0.4385
Inorganic	Barium	mg/kg		3.763	3.763	5.387	4 / 4	4.764
Inorganic	Beryllium	mg/kg	0.02666 / 0.02986	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.364 / 0.4043	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.01006 / 0.03881	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		42224	42224	54736	4 / 4	47200
Inorganic	Chromium	mg/kg	0.1254 / 2.426	ND	0.728	1.098	2 / 4	0.913
Inorganic	Cobalt	mg/kg	0.01986 / 0.05287	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.1411 / 2.426	ND	0.5096	0.5096	1 / 4	0.5096
Inorganic	Iron	mg/kg		11.83	11.83	44.3	4 / 4	28.87
Inorganic	Lead	mg/kg		0.09016	0.09016	0.1306	4 / 4	0.1144
Inorganic	Magnesium	mg/kg		899.1	899.1	1169	4 / 4	1011
Inorganic	Manganese	mg/kg		16.74	16.74	34.52	4 / 4	25.87
Inorganic	Mercury	mg/kg		0.0182	0.0182	0.02312	4 / 4	0.02056
Inorganic	Molybdenum	mg/kg		0.09016	0.09016	0.1496	4 / 4	0.1217
Inorganic	Nickel	mg/kg	0.098 / 2.426	ND	0.4704	0.546	2 / 4	0.5082
Inorganic	Potassium	mg/kg		2344	2344	2535	4 / 4	2430
Inorganic	Selenium	mg/kg		0.7888	0.7888	0.9952	4 / 4	0.8618
Inorganic	Silver	mg/kg	0.00261 / 0.00292	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1803	1803	2193	4 / 4	1966
Inorganic	Strontium	mg/kg		46.51	46.51	58.47	4 / 4	51.68
Inorganic	Thallium	mg/kg	0.01251 / 0.014	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.04312 / 0.6916	ND	0.1529	0.1529	1 / 4	0.1529
Inorganic	Zinc	mg/kg		2.548	2.548	55.67	4 / 4	38.47

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 8: TVA Sampling, Fall 2009 - Bluegill Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8358 / 1.786	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01786 / 0.01947	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.01448 / 0.03384	ND	0.03894	0.08282	5 / 6	0.05955
Inorganic	Barium	mg/kg		0.0282	0.0282	0.09964	6 / 6	0.06224
Inorganic	Beryllium	mg/kg	0.00301 / 0.00323	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.06016 / 0.1818	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00564 / 0.01091	ND	0.05427	0.05427	1 / 6	0.05427
Inorganic	Calcium	mg/kg		91.74	91.74	798	6 / 6	463.4
Inorganic	Chromium	mg/kg	0.1147 / 0.1221	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.00451 / 0.01062	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.1673 / 0.177	ND	0.188	0.3008	5 / 6	0.2502
Inorganic	Iron	mg/kg	11.6 / 12.32	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.00978 / 0.01044	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		240.8	240.8	299.5	6 / 6	268.6
Inorganic	Manganese	mg/kg		0.1147	0.1147	0.3618	6 / 6	0.2674
Inorganic	Mercury	mg/kg		0.02985	0.02985	0.04824	6 / 6	0.03782
Inorganic	Molybdenum	mg/kg	0.01015 / 0.01414	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.03184 / 0.03363	ND	0.0195	0.03434	3 / 6	0.0286
Inorganic	Potassium	mg/kg		2965	2965	3271	6 / 6	3126
Inorganic	Selenium	mg/kg		0.7562	0.7562	1.168	6 / 6	0.9563
Inorganic	Silver	mg/kg	0.00279 / 0.00302	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		246.3	246.3	413.9	6 / 6	313
Inorganic	Strontium	mg/kg	0.0141 / 0.5841	ND	0.7708	0.7839	2 / 6	0.7774
Inorganic	Thallium	mg/kg	0.01372 / 0.01451	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.05076 / 0.05487	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		9.749	9.749	18.66	6 / 6	13.05
Physical Properties	% Lipids	%		0.33	0.33	0.94	6 / 6	0.6583

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H- 9: TVA Sampling, Fall 2009 - Bluegill Carcass at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5	5	61.3	3 / 3	30.03
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.024 / 0.24	ND	0.33	0.37	2 / 3	0.35
Inorganic	Barium	mg/kg		0.82	0.82	3.2	3 / 3	1.973
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.36 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.021 / 0.037	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		16800	16800	51000	3 / 3	32967
Inorganic	Chromium	mg/kg	0.55 / 0.65	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.029 / 0.049	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg	0.63 / 0.74	ND	ND	ND	0 / 3	0
Inorganic	Iron	mg/kg		17.4	17.4	67.1	3 / 3	37.77
Inorganic	Lead	mg/kg		0.11	0.11	0.19	3 / 3	0.1467
Inorganic	Magnesium	mg/kg		452	452	1060	3 / 3	733.3
Inorganic	Manganese	mg/kg		14	14	43.7	3 / 3	27.33
Inorganic	Mercury	mg/kg		0.025	0.025	0.032	3 / 3	0.02833
Inorganic	Molybdenum	mg/kg	0.061 / 0.11	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.42 / 0.5	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2060	2060	2780	3 / 3	2403
Inorganic	Selenium	mg/kg		0.57	0.57	0.66	3 / 3	0.61
Inorganic	Silver	mg/kg	0.0025 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1200	1200	2040	3 / 3	1617
Inorganic	Strontium	mg/kg		14.8	14.8	38.4	3 / 3	25.73
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.41 / 0.57	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		34.4	34.4	62	3 / 3	44.4

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-10: TVA Sampling, Fall 2009 - Bluegill Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.87 / 1.8	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.034	0.034	0.072	6 / 6	0.05183
Inorganic	Barium	mg/kg		0.035	0.035	0.18	6 / 6	0.08533
Inorganic	Beryllium	mg/kg	0.0032 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.063 / 0.22	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0058 / 0.022	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		263	263	2550	6 / 6	1055
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0048 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.21	0.21	0.6	6 / 6	0.425
Inorganic	Iron	mg/kg	12.1 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.01 / 0.01	ND	0.018	0.048	2 / 6	0.033
Inorganic	Magnesium	mg/kg		249	249	287	6 / 6	264.2
Inorganic	Manganese	mg/kg	0.2 / 0.97	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.04	0.04	0.09	6 / 6	0.05317
Inorganic	Molybdenum	mg/kg	0.011 / 0.023	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.033 / 0.033	ND	0.036	0.056	5 / 6	0.0448
Inorganic	Potassium	mg/kg		3050	3050	3340	6 / 6	3162
Inorganic	Selenium	mg/kg		0.5	0.5	0.74	6 / 6	0.5983
Inorganic	Silver	mg/kg	0.0029 / 0.0049	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		330	330	403	6 / 6	352.7
Inorganic	Strontium	mg/kg		0.22	0.22	2	6 / 6	0.835
Inorganic	Thallium	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.053 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.5	8.5	22.5	6 / 6	14.88
Physical Properties	% Lipids	%		0.22	0.22	0.41	6 / 6	0.3317

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-11: TVA Sampling, Fall 2009 - Bluegill Carcass at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.711	5.711	30.15	4 / 4	13.12
Inorganic	Antimony	mg/kg	0.01374 / 0.01513	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.3588	0.3588	0.45	4 / 4	0.3904
Inorganic	Barium	mg/kg		2.55	2.55	6.399	4 / 4	3.797
Inorganic	Beryllium	mg/kg	0.02814 / 0.03065	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.402 / 0.4268	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.01316 / 0.02328	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		35175	35175	51604	4 / 4	43335
Inorganic	Chromium	mg/kg	0.6375 / 2.483	ND	1.125	1.125	1 / 4	1.125
Inorganic	Cobalt	mg/kg	0.01876 / 0.04875	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.7176 / 2.475	ND	ND	ND	0 / 4	0
Inorganic	Iron	mg/kg		12.56	12.56	65.63	4 / 4	32.72
Inorganic	Lead	mg/kg		0.04355	0.04355	0.0975	4 / 4	0.07925
Inorganic	Magnesium	mg/kg		765	765	1180	4 / 4	953.9
Inorganic	Manganese	mg/kg		20.21	20.21	30.2	4 / 4	23.48
Inorganic	Mercury	mg/kg	0.01106 / 0.01203	ND	0.01238	0.01238	1 / 4	0.01238
Inorganic	Molybdenum	mg/kg	0.097 / 0.1346	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	2.312 / 2.483	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		2472	2472	2805	4 / 4	2584
Inorganic	Selenium	mg/kg	0.06365 / 0.3647	ND	0.4485	0.6375	3 / 4	0.563
Inorganic	Silver	mg/kg	0.00275 / 0.00299	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1969	1969	2506	4 / 4	2152
Inorganic	Strontium	mg/kg		32.29	32.29	44.89	4 / 4	37.37
Inorganic	Thallium	mg/kg	0.01307 / 0.01436	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.3685 / 0.5625	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		41.63	41.63	45.9	4 / 4	44.37

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-12: TVA Sampling, Fall 2009 - Bluegill Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.846 / 1.771	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01692 / 0.01916	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.01373 / 0.08556	ND	0.1154	0.1154	1 / 6	0.1154
Inorganic	Barium	mg/kg		0.04092	0.04092	0.4512	6 / 6	0.1789
Inorganic	Beryllium	mg/kg	0.00299 / 0.00338	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.06386 / 0.1617	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00517 / 0.02256	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		204.6	204.6	3252	6 / 6	1598
Inorganic	Chromium	mg/kg	0.1095 / 0.1241	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.00438 / 0.00651	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2256	0.2256	0.5076	6 / 6	0.3123
Inorganic	Iron	mg/kg	10.95 / 12.46	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.00935 / 0.01053	ND	0.01214	0.02256	2 / 6	0.01735
Inorganic	Magnesium	mg/kg		273.4	273.4	348.1	6 / 6	311.2
Inorganic	Manganese	mg/kg		0.094	0.094	1.547	6 / 6	0.7743
Inorganic	Mercury	mg/kg		0.01471	0.01471	0.02256	6 / 6	0.01793
Inorganic	Molybdenum	mg/kg	0.00955 / 0.01466	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.03162 / 0.04136	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3088	3088	3801	6 / 6	3469
Inorganic	Selenium	mg/kg		0.3296	0.3296	0.6324	6 / 6	0.4825
Inorganic	Silver	mg/kg	0.00259 / 0.00309	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		290.5	290.5	423	6 / 6	364.1
Inorganic	Strontium	mg/kg		0.1469	0.1469	2.745	6 / 6	1.188
Inorganic	Thallium	mg/kg	0.01294 / 0.01466	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.09612 / 0.1096	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		12.16	12.16	19.36	6 / 6	15.6
Physical Properties	% Lipids	%		0.28	0.28	0.88	6 / 6	0.5317
Physical Properties	% Moisture	%		79.4	79.4	81.4	6 / 6	80.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-13: TVA Sampling, Fall 2009 - Bluegill Carcass at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	18.8 / 19.7	ND	25.1	66.1	3 / 4	40.03
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg	0.13 / 0.14	ND	0.14	0.2	3 / 4	0.1767
Inorganic	Barium	mg/kg		3.2	3.2	7	4 / 4	4.45
Inorganic	Beryllium	mg/kg	0.14 / 0.15	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	1.9 / 2.1	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.036 / 0.039	ND	0.048	0.048	1 / 4	0.048
Inorganic	Calcium	mg/kg		31500	31500	58100	4 / 4	46175
Inorganic	Chromium	mg/kg	0.59 / 0.63	ND	0.8	0.8	1 / 4	0.8
Inorganic	Cobalt	mg/kg	0.066 / 0.072	ND	0.069	0.069	1 / 4	0.069
Inorganic	Copper	mg/kg	0.68 / 0.74	ND	0.78	0.78	1 / 4	0.78
Inorganic	Iron	mg/kg	56.5 / 61.5	ND	ND	ND	0 / 4	0
Inorganic	Lead	mg/kg		0.11	0.11	0.25	4 / 4	0.1775
Inorganic	Magnesium	mg/kg		761	761	1130	4 / 4	955.5
Inorganic	Manganese	mg/kg		19.4	19.4	43.4	4 / 4	27.45
Inorganic	Mercury	mg/kg		0.019	0.019	0.03	4 / 4	0.02475
Inorganic	Molybdenum	mg/kg	0.17 / 0.18	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.46 / 0.5	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		2170	2170	2360	4 / 4	2278
Inorganic	Selenium	mg/kg		0.73	0.73	0.85	4 / 4	0.7825
Inorganic	Silver	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1580	1580	1980	4 / 4	1778
Inorganic	Strontium	mg/kg		34.7	34.7	58.3	4 / 4	47.73
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.21 / 0.23	ND	0.25	0.49	3 / 4	0.33
Inorganic	Zinc	mg/kg		45.7	45.7	50.9	4 / 4	47.28

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-14: TVA Sampling, Fall 2009 - Bluegill Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8471 / 2.88	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.018 / 0.01927	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.01484 / 0.05064	ND	0.02295	0.0918	4 / 6	0.04794
Inorganic	Barium	mg/kg		0.02758	0.02758	0.198	6 / 6	0.09753
Inorganic	Beryllium	mg/kg	0.00306 / 0.00328	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.0612 / 0.0738	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00566 / 0.0216	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		139.7	139.7	1980	6 / 6	721.9
Inorganic	Chromium	mg/kg	0.1163 / 0.123	ND	0.2561	0.2561	1 / 6	0.2561
Inorganic	Cobalt	mg/kg	0.00459 / 0.01032	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2665	0.2665	0.522	6 / 6	0.3301
Inorganic	Iron	mg/kg	11.01 / 12.27	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.00995 / 0.01054	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		250.9	250.9	338.4	6 / 6	278
Inorganic	Manganese	mg/kg		0.123	0.123	0.828	6 / 6	0.4253
Inorganic	Mercury	mg/kg	0.00398 / 0.02365	ND	0.027	0.05945	5 / 6	0.03886
Inorganic	Molybdenum	mg/kg	0.01025 / 0.01087	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.03152 / 0.0344	ND	0.0468	0.1123	3 / 6	0.08516
Inorganic	Potassium	mg/kg		3010	3010	3618	6 / 6	3206
Inorganic	Selenium	mg/kg		0.8568	0.8568	1.14	6 / 6	0.9903
Inorganic	Silver	mg/kg	0.00288 / 0.00308	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		262.3	262.3	375.2	6 / 6	316.6
Inorganic	Strontium	mg/kg		0.09259	0.09259	2.124	6 / 6	0.7261
Inorganic	Thallium	mg/kg	0.01377 / 0.01462	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.05202 / 0.05535	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		9.84	9.84	20.6	6 / 6	14.06
Physical Properties	% Lipids	%		0.3	0.3	0.71	6 / 6	0.5083

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-15: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	1.2 / 3.6	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.017 / 0.13	ND	0.21	0.43	2 / 6	0.32
Inorganic	Arsenic	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.018 / 0.02	ND	0.027	0.044	4 / 6	0.03275
Inorganic	Beryllium	mg/kg	0.0029 / 0.0032	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.057 / 0.063	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0058 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		59.8	59.8	75.5	6 / 6	70.95
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.17	0.27	5 / 6	0.214
Inorganic	Cobalt	mg/kg	0.0044 / 0.0057	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.24	0.24	0.34	6 / 6	0.29
Inorganic	Iron	mg/kg	11.1 / 12.3	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg		0.012	0.012	4.2	6 / 6	1.684
Inorganic	Magnesium	mg/kg		186	186	228	6 / 6	205.7
Inorganic	Manganese	mg/kg		0.12	0.12	0.21	6 / 6	0.16
Inorganic	Mercury	mg/kg	0.0038 / 0.069	ND	0.044	0.19	5 / 6	0.0992
Inorganic	Molybdenum	mg/kg	0.0097 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.035	0.035	0.058	6 / 6	0.042
Inorganic	Potassium	mg/kg		2980	2980	3630	6 / 6	3363
Inorganic	Selenium	mg/kg		0.15	0.15	0.3	6 / 6	0.2067
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		254	254	379	6 / 6	324.2
Inorganic	Strontium	mg/kg	0.014 / 0.078	ND	0.09	0.093	2 / 6	0.0915
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.049 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.8	5.8	8.3	6 / 6	6.65
Physical Properties	% Lipids	%		1.7	1.7	4.8	6 / 6	2.767

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-16: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8694 / 5.54	ND	7.069	7.069	1 / 6	7.069
Inorganic	Antimony	mg/kg	0.01673 / 0.1044	ND	0.7752	0.7752	1 / 6	0.7752
Inorganic	Arsenic	mg/kg	0.03383 / 0.08142	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.02292 / 0.07611	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.00286 / 0.00335	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.05508 / 0.07584	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00669 / 0.1221	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		57.99	57.99	100.2	6 / 6	70.92
Inorganic	Chromium	mg/kg		0.1242	0.1242	0.632	6 / 6	0.2285
Inorganic	Cobalt	mg/kg	0.00428 / 0.01947	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2292	0.2292	0.7965	6 / 6	0.3629
Inorganic	Iron	mg/kg	10.87 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.00918 / 0.01299	ND	0.1304	7.67	4 / 6	2.482
Inorganic	Magnesium	mg/kg		212	212	230.5	6 / 6	221.7
Inorganic	Manganese	mg/kg		0.1266	0.1266	0.2655	6 / 6	0.1782
Inorganic	Mercury	mg/kg		0.03009	0.03009	0.189	6 / 6	0.07399
Inorganic	Molybdenum	mg/kg	0.00938 / 0.0108	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.04202	0.04202	0.3024	6 / 6	0.1084
Inorganic	Potassium	mg/kg		3459	3459	3813	6 / 6	3669
Inorganic	Selenium	mg/kg		0.3213	0.3213	0.3672	6 / 6	0.3448
Inorganic	Silver	mg/kg	0.00265 / 0.00302	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		231.1	231.1	373.5	6 / 6	282.6
Inorganic	Strontium	mg/kg	0.0567 / 0.1151	ND	ND	ND	0 / 6	0
Inorganic	Thallium	mg/kg	0.01285 / 0.01469	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04692 / 0.0558	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.93	4.93	6.691	6 / 6	5.838
Physical Properties	% Lipids	%		1.2	1.2	5.1	6 / 6	3.25

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-17: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3	3	5.2	6 / 6	4.083
Inorganic	Antimony	mg/kg	0.018 / 0.15	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.014 / 0.016	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg		0.026	0.026	0.096	6 / 6	0.0435
Inorganic	Beryllium	mg/kg	0.003 / 0.0086	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.058 / 0.12	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.016	0.016	0.055	6 / 6	0.03233
Inorganic	Calcium	mg/kg		64.3	64.3	136	6 / 6	80.93
Inorganic	Chromium	mg/kg		0.13	0.13	0.58	6 / 6	0.2633
Inorganic	Cobalt	mg/kg		0.0063	0.0063	0.014	6 / 6	0.01007
Inorganic	Copper	mg/kg		0.24	0.24	0.79	6 / 6	0.3933
Inorganic	Iron	mg/kg	11.3 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0096 / 0.0098	ND	0.054	1.3	5 / 6	0.4656
Inorganic	Magnesium	mg/kg		188	188	235	6 / 6	210.3
Inorganic	Manganese	mg/kg		0.14	0.14	0.22	6 / 6	0.1817
Inorganic	Mercury	mg/kg		0.026	0.026	0.21	6 / 6	0.0785
Inorganic	Molybdenum	mg/kg	0.0098 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.048	0.048	0.17	6 / 6	0.08283
Inorganic	Potassium	mg/kg		3200	3200	3890	6 / 6	3515
Inorganic	Selenium	mg/kg		0.26	0.26	0.44	6 / 6	0.35
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		249	249	455	6 / 6	324.5
Inorganic	Strontium	mg/kg		0.058	0.058	0.12	6 / 6	0.08
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.05 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.1	4.1	6.3	6 / 6	5.433
Physical Properties	% Lipids	%		1.6	1.6	4.8	6 / 6	2.75

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-18: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.77 / 2.8	ND	2.4	5.2	5 / 6	3.78
Inorganic	Antimony	mg/kg	0.018 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.014 / 0.016	ND	0.017	0.022	4 / 6	0.01875
Inorganic	Barium	mg/kg	0.018 / 0.02	ND	0.029	0.041	5 / 6	0.0338
Inorganic	Beryllium	mg/kg	0.0029 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.056 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0052 / 0.021	ND	0.0072	0.025	5 / 6	0.01864
Inorganic	Calcium	mg/kg		68.2	68.2	95.9	6 / 6	80.52
Inorganic	Chromium	mg/kg		0.27	0.27	0.92	6 / 6	0.4933
Inorganic	Cobalt	mg/kg	0.0043 / 0.018	ND	0.0062	0.01	5 / 6	0.00826
Inorganic	Copper	mg/kg		0.29	0.29	0.35	6 / 6	0.3217
Inorganic	Iron	mg/kg	10.9 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg		0.044	0.044	0.53	6 / 6	0.2567
Inorganic	Magnesium	mg/kg		187	187	230	6 / 6	210.3
Inorganic	Manganese	mg/kg	0.073 / 0.17	ND	0.16	0.19	5 / 6	0.17
Inorganic	Mercury	mg/kg		0.038	0.038	0.1	6 / 6	0.07233
Inorganic	Molybdenum	mg/kg	0.0095 / 0.011	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.043	0.043	0.065	6 / 6	0.05733
Inorganic	Potassium	mg/kg		3530	3530	3780	6 / 6	3668
Inorganic	Selenium	mg/kg		0.17	0.17	0.3	6 / 6	0.2217
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		275	275	405	6 / 6	319.5
Inorganic	Strontium	mg/kg		0.062	0.062	0.1	6 / 6	0.08183
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.048 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.8	5.8	7.8	6 / 6	6.817
Physical Properties	% Lipids	%		3.2	3.2	7.9	6 / 6	4.917

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-19: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1.206	1.206	3.649	6 / 6	2.717
Inorganic	Antimony	mg/kg	0.01706 / 0.01958	ND	0.1596	0.5016	2 / 6	0.3306
Inorganic	Arsenic	mg/kg	0.01373 / 0.03293	ND	0.02704	0.0798	5 / 6	0.05076
Inorganic	Barium	mg/kg	0.0181 / 0.04	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.00291 / 0.00334	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.05616 / 0.152	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00587 / 0.03648	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		51.83	51.83	91.4	6 / 6	65.34
Inorganic	Chromium	mg/kg	0.1082 / 0.121	ND	0.1144	0.2	3 / 6	0.1515
Inorganic	Cobalt	mg/kg	0.00661 / 0.01484	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.208	0.208	0.48	6 / 6	0.3014
Inorganic	Iron	mg/kg	10.98 / 12.27	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg		0.02574	0.02574	5.413	6 / 6	1.178
Inorganic	Magnesium	mg/kg		188.3	188.3	218	6 / 6	206.3
Inorganic	Manganese	mg/kg		0.1144	0.1144	0.22	6 / 6	0.1463
Inorganic	Mercury	mg/kg		0.02	0.02	0.1109	6 / 6	0.05375
Inorganic	Molybdenum	mg/kg	0.00957 / 0.0128	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.0356	0.0356	0.084	6 / 6	0.05319
Inorganic	Potassium	mg/kg		3128	3128	3596	6 / 6	3378
Inorganic	Selenium	mg/kg		0.03382	0.03382	0.3328	6 / 6	0.2526
Inorganic	Silver	mg/kg	0.0027 / 0.00297	ND	0.0028	0.0028	1 / 6	0.0028
Inorganic	Sodium	mg/kg		259.9	259.9	429.7	6 / 6	342.1
Inorganic	Strontium	mg/kg		0.03762	0.03762	0.09306	6 / 6	0.06131
Inorganic	Thallium	mg/kg	0.03952 / 0.04431	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04784 / 0.05434	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.221	5.221	7.12	6 / 6	6.248
Physical Properties	% Lipids	%		3.9	3.9	9.9	6 / 6	6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-20: TVA Sampling, Fall 2009 - Channel Catfish Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.1	3.1	6.1	5 / 5	4.66
Inorganic	Antimony	mg/kg	0.017 / 0.019	ND	0.23	0.43	3 / 5	0.3333
Inorganic	Arsenic	mg/kg	0.014 / 0.015	ND	0.032	0.032	1 / 5	0.032
Inorganic	Barium	mg/kg	0.018 / 0.019	ND	0.029	0.059	4 / 5	0.04025
Inorganic	Beryllium	mg/kg	0.0029 / 0.0032	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.057 / 0.063	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg		0.0081	0.0081	0.14	5 / 5	0.05962
Inorganic	Calcium	mg/kg		67.5	67.5	767	5 / 5	271.4
Inorganic	Chromium	mg/kg		0.13	0.13	0.24	5 / 5	0.178
Inorganic	Cobalt	mg/kg		0.0044	0.0044	0.0075	5 / 5	0.0063
Inorganic	Copper	mg/kg		0.23	0.23	0.48	5 / 5	0.326
Inorganic	Iron	mg/kg	11.1 / 12.2	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg		0.02	0.02	3.5	5 / 5	1.972
Inorganic	Magnesium	mg/kg		204	204	235	5 / 5	220.6
Inorganic	Manganese	mg/kg		0.12	0.12	0.24	5 / 5	0.156
Inorganic	Mercury	mg/kg		0.04	0.04	0.22	5 / 5	0.1174
Inorganic	Molybdenum	mg/kg	0.0097 / 0.011	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg		0.048	0.048	0.077	5 / 5	0.068
Inorganic	Potassium	mg/kg		3560	3560	3910	5 / 5	3706
Inorganic	Selenium	mg/kg		0.23	0.23	0.51	5 / 5	0.344
Inorganic	Silver	mg/kg	0.0027 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		306	306	469	5 / 5	371.8
Inorganic	Strontium	mg/kg		0.065	0.065	0.67	5 / 5	0.2392
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.049 / 0.054	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		5.5	5.5	13.4	5 / 5	8.98
Physical Properties	% Lipids	%		1.8	1.8	8.5	5 / 5	5.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-21: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at Emory River Mile 2.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		373	373	545	3 / 3	440.3
Inorganic	Antimony	mg/kg		0.033	0.033	0.048	3 / 3	0.03867
Inorganic	Arsenic	mg/kg		1	1	1.6	3 / 3	1.233
Inorganic	Barium	mg/kg		10.1	10.1	14.1	3 / 3	11.63
Inorganic	Beryllium	mg/kg	0.003 / 0.061	ND	0.08	0.08	1 / 3	0.08
Inorganic	Boron	mg/kg	0.059 / 0.6	ND	0.92	0.92	1 / 3	0.92
Inorganic	Cadmium	mg/kg	0.029 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		11400	11400	15100	3 / 3	13867
Inorganic	Chromium	mg/kg		0.63	0.63	0.84	3 / 3	0.72
Inorganic	Cobalt	mg/kg		0.32	0.32	0.43	3 / 3	0.36
Inorganic	Copper	mg/kg		1.7	1.7	2.1	3 / 3	1.867
Inorganic	Iron	mg/kg		316	316	451	3 / 3	367.7
Inorganic	Lead	mg/kg		0.45	0.45	0.65	3 / 3	0.52
Inorganic	Magnesium	mg/kg		336	336	386	3 / 3	365.7
Inorganic	Manganese	mg/kg		43.3	43.3	57.7	3 / 3	49.73
Inorganic	Mercury	mg/kg		0.015	0.015	0.016	3 / 3	0.01533
Inorganic	Molybdenum	mg/kg	0.075 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.64	0.64	0.86	3 / 3	0.72
Inorganic	Potassium	mg/kg		2240	2240	2410	3 / 3	2337
Inorganic	Selenium	mg/kg		0.78	0.78	1.1	3 / 3	0.9433
Inorganic	Silver	mg/kg	0.0027 / 0.0027	ND	0.0041	0.0041	1 / 3	0.0041
Inorganic	Sodium	mg/kg		1190	1190	1260	3 / 3	1233
Inorganic	Strontium	mg/kg		12.2	12.2	15.8	3 / 3	14.07
Inorganic	Thallium	mg/kg	0.03 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		1.3	1.3	1.9	3 / 3	1.5
Inorganic	Zinc	mg/kg		17.5	17.5	18.9	3 / 3	18.27
Physical Properties	% Lipids	%		1	1	1.3	3 / 3	1.2

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-22: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		280.8	280.8	280.8	1 / 1	280.8
Inorganic	Antimony	mg/kg	0.01904 / 0.01904	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.476	0.476	0.476	1 / 1	0.476
Inorganic	Barium	mg/kg		7.188	7.188	7.188	1 / 1	7.188
Inorganic	Beryllium	mg/kg	0.0238 / 0.0238	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.1071 / 0.1071	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.0219 / 0.0219	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		13447	13447	13447	1 / 1	13447
Inorganic	Chromium	mg/kg		1.285	1.285	1.285	1 / 1	1.285
Inorganic	Cobalt	mg/kg		0.2856	0.2856	0.2856	1 / 1	0.2856
Inorganic	Copper	mg/kg		1.642	1.642	1.642	1 / 1	1.642
Inorganic	Iron	mg/kg		368.9	368.9	368.9	1 / 1	368.9
Inorganic	Lead	mg/kg		0.476	0.476	0.476	1 / 1	0.476
Inorganic	Magnesium	mg/kg		371.3	371.3	371.3	1 / 1	371.3
Inorganic	Manganese	mg/kg		46.89	46.89	46.89	1 / 1	46.89
Inorganic	Mercury	mg/kg	0.01785 / 0.01785	ND	ND	ND	0 / 1	0
Inorganic	Molybdenum	mg/kg	0.0595 / 0.0595	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg		0.4998	0.4998	0.4998	1 / 1	0.4998
Inorganic	Potassium	mg/kg		2666	2666	2666	1 / 1	2666
Inorganic	Selenium	mg/kg		0.7378	0.7378	0.7378	1 / 1	0.7378
Inorganic	Silver	mg/kg	0.00309 / 0.00309	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1280	1280	1280	1 / 1	1280
Inorganic	Strontium	mg/kg		9.925	9.925	9.925	1 / 1	9.925
Inorganic	Thallium	mg/kg	0.02618 / 0.02618	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg		0.6664	0.6664	0.6664	1 / 1	0.6664
Inorganic	Zinc	mg/kg		17.09	17.09	17.09	1 / 1	17.09
Physical Properties	% Lipids	%		3.2	3.2	3.2	1 / 1	3.2
Physical Properties	% Moisture	%		76.2	76.2	76.2	1 / 1	76.2

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-23: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		206	206	243	3 / 3	225
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.62	0.62	0.83	3 / 3	0.71
Inorganic	Barium	mg/kg		5.9	5.9	8.7	3 / 3	7.2
Inorganic	Beryllium	mg/kg	0.013 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg		0.15	0.15	0.24	3 / 3	0.19
Inorganic	Cadmium	mg/kg	0.012 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		14400	14400	22100	3 / 3	17733
Inorganic	Chromium	mg/kg		0.33	0.33	0.77	3 / 3	0.5
Inorganic	Cobalt	mg/kg		0.15	0.15	0.19	3 / 3	0.17
Inorganic	Copper	mg/kg		1.1	1.1	1.2	3 / 3	1.133
Inorganic	Iron	mg/kg		203	203	239	3 / 3	220
Inorganic	Lead	mg/kg		0.2	0.2	0.28	3 / 3	0.24
Inorganic	Magnesium	mg/kg		341	341	443	3 / 3	389
Inorganic	Manganese	mg/kg		46.4	46.4	72.1	3 / 3	62.47
Inorganic	Mercury	mg/kg	0.016 / 0.018	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.011 / 0.14	ND	0.23	0.23	1 / 3	0.23
Inorganic	Nickel	mg/kg		0.25	0.25	0.3	3 / 3	0.2833
Inorganic	Potassium	mg/kg		2240	2240	2450	3 / 3	2357
Inorganic	Selenium	mg/kg		1.2	1.2	1.2	3 / 3	1.2
Inorganic	Silver	mg/kg	0.0029 / 0.0039	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1040	1040	1270	3 / 3	1133
Inorganic	Strontium	mg/kg		11.9	11.9	19.3	3 / 3	15.5
Inorganic	Thallium	mg/kg	0.043 / 0.06	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.55	0.55	0.72	3 / 3	0.6167
Inorganic	Zinc	mg/kg		18.1	18.1	19.9	3 / 3	19.03
Physical Properties	% Lipids	%		3.1	3.1	3.6	3 / 3	3.367
Physical Properties	% Moisture	%		77.8	77.8	78.5	3 / 3	78.07

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-24: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		89.5	89.5	156	3 / 3	114.8
Inorganic	Antimony	mg/kg	0.017 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.25	0.25	0.3	3 / 3	0.28
Inorganic	Barium	mg/kg		3	3	4.7	3 / 3	4.1
Inorganic	Beryllium	mg/kg	0.0029 / 0.0082	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.072 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.012	0.012	0.053	3 / 3	0.028
Inorganic	Calcium	mg/kg		7860	7860	15400	3 / 3	11687
Inorganic	Chromium	mg/kg		0.19	0.19	0.41	3 / 3	0.31
Inorganic	Cobalt	mg/kg		0.11	0.11	0.16	3 / 3	0.1267
Inorganic	Copper	mg/kg		0.88	0.88	1.1	3 / 3	0.9767
Inorganic	Iron	mg/kg		118	118	202	3 / 3	153.7
Inorganic	Lead	mg/kg		0.18	0.18	0.24	3 / 3	0.2033
Inorganic	Magnesium	mg/kg		315	315	412	3 / 3	360
Inorganic	Manganese	mg/kg		29.5	29.5	46.2	3 / 3	39.83
Inorganic	Mercury	mg/kg		0.023	0.023	0.032	3 / 3	0.029
Inorganic	Molybdenum	mg/kg	0.012 / 0.018	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.15	0.15	0.38	3 / 3	0.2633
Inorganic	Potassium	mg/kg		2480	2480	2880	3 / 3	2667
Inorganic	Selenium	mg/kg		0.42	0.42	0.58	3 / 3	0.5167
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	0.0099	0.0099	1 / 3	0.0099
Inorganic	Sodium	mg/kg		832	832	1080	3 / 3	917.7
Inorganic	Strontium	mg/kg		6	6	14.2	3 / 3	10.27
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.17	0.17	0.27	3 / 3	0.21
Inorganic	Zinc	mg/kg		18.4	18.4	19.3	3 / 3	18.97
Physical Properties	% Lipids	%		4.6	4.6	5.2	3 / 3	4.933
Physical Properties	% Moisture	%		73.8	73.8	77.5	3 / 3	75.57

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-25: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		115.7	115.7	138.7	2 / 2	127.2
Inorganic	Antimony	mg/kg	0.01718 / 0.01752	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		0.2215	0.2215	0.24	2 / 2	0.2308
Inorganic	Barium	mg/kg		2.576	2.576	3.144	2 / 2	2.86
Inorganic	Beryllium	mg/kg	0.00294 / 0.00312	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	0.0936 / 0.1266	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg	0.00723 / 0.01416	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		11255	11255	11352	2 / 2	11304
Inorganic	Chromium	mg/kg		0.1831	0.1831	0.288	2 / 2	0.2356
Inorganic	Cobalt	mg/kg		0.09718	0.09718	0.1608	2 / 2	0.129
Inorganic	Copper	mg/kg		0.7232	0.7232	0.84	2 / 2	0.7816
Inorganic	Iron	mg/kg		124.1	124.1	139.2	2 / 2	131.7
Inorganic	Lead	mg/kg		0.1062	0.1062	0.1584	2 / 2	0.1323
Inorganic	Magnesium	mg/kg		345.8	345.8	357.6	2 / 2	351.7
Inorganic	Manganese	mg/kg		24.18	24.18	33.6	2 / 2	28.89
Inorganic	Mercury	mg/kg		0.01175	0.01175	0.012	2 / 2	0.01188
Inorganic	Molybdenum	mg/kg	0.0174 / 0.02088	ND	ND	ND	0 / 2	0
Inorganic	Nickel	mg/kg	0.1514 / 0.1944	ND	ND	ND	0 / 2	0
Inorganic	Potassium	mg/kg		2832	2832	2848	2 / 2	2840
Inorganic	Selenium	mg/kg		0.7458	0.7458	0.84	2 / 2	0.7929
Inorganic	Silver	mg/kg	0.00264 / 0.00271	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		1053	1053	1092	2 / 2	1073
Inorganic	Strontium	mg/kg		7.512	7.512	9.967	2 / 2	8.74
Inorganic	Thallium	mg/kg	0.01311 / 0.01344	ND	ND	ND	0 / 2	0
Inorganic	Vanadium	mg/kg		0.165	0.165	0.264	2 / 2	0.2145
Inorganic	Zinc	mg/kg		14.46	14.46	15.02	2 / 2	14.74
Physical Properties	% Lipids	%		3.8	3.8	3.8	2 / 2	3.8
Physical Properties	% Moisture	%		76	76	77.4	2 / 2	76.7

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-26: TVA Sampling, Fall 2009 - Gizzard Shad Whole Body at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		320	320	374	3 / 3	348.3
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.43	0.43	0.45	3 / 3	0.4433
Inorganic	Barium	mg/kg		6.4	6.4	7.8	3 / 3	7.267
Inorganic	Beryllium	mg/kg	0.023 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg		0.26	0.26	0.31	3 / 3	0.2867
Inorganic	Cadmium	mg/kg	0.018 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		10100	10100	13200	3 / 3	11867
Inorganic	Chromium	mg/kg		0.65	0.65	0.77	3 / 3	0.6967
Inorganic	Cobalt	mg/kg		0.22	0.22	0.26	3 / 3	0.2433
Inorganic	Copper	mg/kg		1.6	1.6	1.7	3 / 3	1.633
Inorganic	Iron	mg/kg		308	308	374	3 / 3	338
Inorganic	Lead	mg/kg		0.39	0.39	0.63	3 / 3	0.4733
Inorganic	Magnesium	mg/kg		394	394	449	3 / 3	419
Inorganic	Manganese	mg/kg		47.2	47.2	57.2	3 / 3	52.33
Inorganic	Mercury	mg/kg	0.027 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.54	0.54	0.64	3 / 3	0.59
Inorganic	Potassium	mg/kg		2540	2540	2640	3 / 3	2577
Inorganic	Selenium	mg/kg		0.66	0.66	0.67	3 / 3	0.6633
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1180	1180	1230	3 / 3	1210
Inorganic	Strontium	mg/kg		8.3	8.3	10.9	3 / 3	9.867
Inorganic	Thallium	mg/kg	0.018 / 0.024	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.75	0.75	0.79	3 / 3	0.7733
Inorganic	Zinc	mg/kg		17.4	17.4	18.6	3 / 3	17.87
Physical Properties	% Lipids	%		1.6	1.6	2.2	3 / 3	1.967
Physical Properties	% Moisture	%		77.7	77.7	78.5	3 / 3	77.97

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-27: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3 / 4.109	ND	22.01	22.01	1 / 4	22.01
Inorganic	Antimony	mg/kg	0.01439 / 0.019	ND	0.1308	0.1308	1 / 4	0.1308
Inorganic	Arsenic	mg/kg		0.16	0.16	0.4251	4 / 4	0.2926
Inorganic	Barium	mg/kg		0.75	0.75	1.733	4 / 4	1.175
Inorganic	Beryllium	mg/kg	0.0032 / 0.03017	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.062 / 0.4251	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.0058 / 0.05778	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		11772	11772	23100	4 / 4	17739
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.2878	0.5136	3 / 4	0.4138
Inorganic	Cobalt	mg/kg	0.012 / 0.0327	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg		0.3852	0.3852	0.51	4 / 4	0.4326
Inorganic	Iron	mg/kg		15.57	15.57	41.86	4 / 4	26.66
Inorganic	Lead	mg/kg	0.011 / 0.07194	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		487	487	728.7	4 / 4	590.7
Inorganic	Manganese	mg/kg		1.766	1.766	5.297	4 / 4	3.166
Inorganic	Mercury	mg/kg	0.0043 / 0.039	ND	0.05559	0.076	3 / 4	0.06312
Inorganic	Molybdenum	mg/kg	0.016 / 0.03597	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg		0.096	0.096	0.2729	4 / 4	0.2128
Inorganic	Potassium	mg/kg	48 / 3695	ND	2260	2450	2 / 4	2355
Inorganic	Selenium	mg/kg		0.55	0.55	0.642	4 / 4	0.6133
Inorganic	Silver	mg/kg	0.00288 / 0.01669	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1480	1480	1843	4 / 4	1621
Inorganic	Strontium	mg/kg		15.5	15.5	21.47	4 / 4	17.92
Inorganic	Thallium	mg/kg	0.0138 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.04578 / 0.04815	ND	0.04905	0.11	3 / 4	0.07735
Inorganic	Zinc	mg/kg		18.9	18.9	24	4 / 4	21.96
Physical Properties	% Lipids	%		5	5	5.1	2 / 2	5.05

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-28: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.86 / 11.9	ND	79	79	1 / 6	79
Inorganic	Antimony	mg/kg	0.017 / 0.019	ND	0.12	1.1	3 / 6	0.74
Inorganic	Arsenic	mg/kg	0.015 / 0.13	ND	0.15	0.19	2 / 6	0.17
Inorganic	Barium	mg/kg	0.018 / 0.02	ND	0.027	0.04	5 / 6	0.0356
Inorganic	Beryllium	mg/kg	0.0029 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.056 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0056 / 0.041	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		108	108	284	6 / 6	186.2
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.15	0.31	5 / 6	0.224
Inorganic	Cobalt	mg/kg	0.0043 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.16 / 0.17	ND	0.19	0.49	5 / 6	0.322
Inorganic	Iron	mg/kg	10.9 / 12.3	ND	12.5	13.8	2 / 6	13.15
Inorganic	Lead	mg/kg	0.0098 / 0.023	ND	0.26	0.47	3 / 6	0.3467
Inorganic	Magnesium	mg/kg		261	261	310	6 / 6	282
Inorganic	Manganese	mg/kg		0.091	0.091	0.17	6 / 6	0.1368
Inorganic	Mercury	mg/kg		0.06	0.06	0.097	6 / 6	0.08383
Inorganic	Molybdenum	mg/kg	0.0095 / 0.018	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.029 / 0.031	ND	0.039	0.062	5 / 6	0.0528
Inorganic	Potassium	mg/kg		3680	3680	4200	6 / 6	3958
Inorganic	Selenium	mg/kg		0.43	0.43	0.58	6 / 6	0.4967
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		312	312	371	6 / 6	333.5
Inorganic	Strontium	mg/kg	0.013 / 0.098	ND	0.1	0.2	3 / 6	0.1667
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.048 / 0.051	ND	0.063	0.45	5 / 6	0.1824
Inorganic	Zinc	mg/kg		5.4	5.4	17.8	6 / 6	11.15
Physical Properties	% Lipids	%		0.31	0.31	6.2	6 / 6	1.48

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-29: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	2.3 / 3.1	ND	13.14	14.25	2 / 4	13.7
Inorganic	Antimony	mg/kg	0.01431 / 0.019	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.2161	0.2161	0.36	4 / 4	0.2744
Inorganic	Barium	mg/kg		0.76	0.76	1.664	4 / 4	1.19
Inorganic	Beryllium	mg/kg	0.0032 / 0.03014	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.062 / 0.411	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.0058 / 0.03014	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		11476	11476	22300	4 / 4	17015
Inorganic	Chromium	mg/kg		0.12	0.12	0.44	4 / 4	0.2861
Inorganic	Cobalt	mg/kg	0.0094 / 0.02599	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg		0.3836	0.3836	0.5256	4 / 4	0.4523
Inorganic	Iron	mg/kg		22.4	22.4	27.95	4 / 4	24.66
Inorganic	Lead	mg/kg	0.012 / 0.1898	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		463	463	649.4	4 / 4	570.8
Inorganic	Manganese	mg/kg		2.5	2.5	6.249	4 / 4	4.111
Inorganic	Mercury	mg/kg		0.077	0.077	0.1022	4 / 4	0.09309
Inorganic	Molybdenum	mg/kg	0.012 / 0.03562	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.033 / 0.08	ND	0.2493	0.438	3 / 4	0.3124
Inorganic	Potassium	mg/kg	48.4 / 3617	ND	2170	2360	2 / 4	2265
Inorganic	Selenium	mg/kg		0.48	0.48	0.55	4 / 4	0.5191
Inorganic	Silver	mg/kg	0.00283 / 0.0048	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1380	1380	1863	4 / 4	1605
Inorganic	Strontium	mg/kg		15	15	20.5	4 / 4	17.85
Inorganic	Thallium	mg/kg	0.0137 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.0438 / 0.055	ND	0.0548	0.0548	1 / 4	0.0548
Inorganic	Zinc	mg/kg		17.5	17.5	22.58	4 / 4	19.94
Physical Properties	% Lipids	%		6.2	6.2	7.4	2 / 2	6.8
Physical Properties	% Moisture	%		67.8	67.8	67.8	2 / 2	67.8

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-30: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.89 / 11	ND	80.6	80.6	1 / 6	80.6
Inorganic	Antimony	mg/kg	0.017 / 0.12	ND	0.99	1.2	2 / 6	1.095
Inorganic	Arsenic	mg/kg	0.015 / 0.084	ND	0.12	0.18	4 / 6	0.15
Inorganic	Barium	mg/kg	0.02 / 0.043	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0029 / 0.0033	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.057 / 0.064	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0053 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		104	104	293	6 / 6	178.7
Inorganic	Chromium	mg/kg	0.11 / 0.11	ND	0.16	0.32	5 / 6	0.226
Inorganic	Cobalt	mg/kg	0.0043 / 0.005	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.16 / 0.16	ND	0.19	0.46	5 / 6	0.316
Inorganic	Iron	mg/kg	11 / 12.5	ND	11.6	14.6	2 / 6	13.1
Inorganic	Lead	mg/kg	0.0099 / 0.13	ND	1.1	14.3	3 / 6	8.933
Inorganic	Magnesium	mg/kg		262	262	289	6 / 6	273.5
Inorganic	Manganese	mg/kg		0.086	0.086	0.17	6 / 6	0.1277
Inorganic	Mercury	mg/kg		0.095	0.095	0.2	6 / 6	0.1358
Inorganic	Molybdenum	mg/kg	0.0095 / 0.017	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.029 / 0.069	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3630	3630	3910	6 / 6	3795
Inorganic	Selenium	mg/kg		0.38	0.38	0.55	6 / 6	0.435
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		281	281	336	6 / 6	316.7
Inorganic	Strontium	mg/kg	0.013 / 0.11	ND	0.18	0.2	2 / 6	0.19
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.048 / 0.055	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.5	4.5	17	6 / 6	10.18
Physical Properties	% Lipids	%		0.17	0.17	1.8	6 / 6	1.012

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-31: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	19.73 / 20.72	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.0143 / 0.01492	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2009	0.2009	0.292	3 / 3	0.2539
Inorganic	Barium	mg/kg		1.32	1.32	1.57	3 / 3	1.459
Inorganic	Beryllium	mg/kg	0.1459 / 0.1521	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2.031 / 2.153	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.04018 / 0.0785	ND	0.04879	0.04879	1 / 3	0.04879
Inorganic	Calcium	mg/kg		27007	27007	31746	3 / 3	29549
Inorganic	Chromium	mg/kg	0.6292 / 0.6601	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.06864 / 0.07222	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg	0.715 / 0.7536	ND	ND	ND	0 / 3	0
Inorganic	Iron	mg/kg	59.49 / 62.28	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.02746 / 0.0287	ND	0.04082	0.04576	2 / 3	0.04329
Inorganic	Magnesium	mg/kg		700.3	700.3	756.7	3 / 3	737.3
Inorganic	Manganese	mg/kg		5.711	5.711	9.326	3 / 3	7.93
Inorganic	Mercury	mg/kg		0.03432	0.03432	0.05652	3 / 3	0.04846
Inorganic	Molybdenum	mg/kg	0.1745 / 0.1808	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.4862 / 0.5166	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2168	2168	2418	3 / 3	2290
Inorganic	Selenium	mg/kg		0.429	0.429	0.7462	3 / 3	0.6011
Inorganic	Silver	mg/kg	0.0143 / 0.01492	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1758	1758	1905	3 / 3	1810
Inorganic	Strontium	mg/kg		21.64	21.64	23.54	3 / 3	22.78
Inorganic	Thallium	mg/kg	0.01373 / 0.01435	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.4576 / 0.471	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		22.25	22.25	31.05	3 / 3	26.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-32: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.798 / 4.699	ND	6.494	109.7	3 / 6	43.33
Inorganic	Antimony	mg/kg	0.01647 / 0.08487	ND	0.2784	2.247	2 / 6	1.263
Inorganic	Arsenic	mg/kg	0.01346 / 0.1801	ND	0.2042	0.2042	1 / 6	0.2042
Inorganic	Barium	mg/kg	0.01763 / 0.04011	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.00278 / 0.00318	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.05568 / 0.06129	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00554 / 0.0812	ND	0.3438	1.325	2 / 6	0.8344
Inorganic	Calcium	mg/kg		115.4	115.4	409.5	6 / 6	195.3
Inorganic	Chromium	mg/kg		0.126	0.126	0.4761	6 / 6	0.2201
Inorganic	Cobalt	mg/kg	0.00441 / 0.01398	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2323	0.2323	0.4872	6 / 6	0.3438
Inorganic	Iron	mg/kg	10.67 / 11.8	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.00905 / 0.05348	ND	0.7245	25.41	4 / 6	7.45
Inorganic	Magnesium	mg/kg		267.4	267.4	294.6	6 / 6	286.1
Inorganic	Manganese	mg/kg		0.1114	0.1114	0.176	6 / 6	0.1474
Inorganic	Mercury	mg/kg		0.05104	0.05104	0.1218	6 / 6	0.07687
Inorganic	Molybdenum	mg/kg	0.00928 / 0.01022	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.042	0.042	0.1509	6 / 6	0.08221
Inorganic	Potassium	mg/kg		3648	3648	4171	6 / 6	3881
Inorganic	Selenium	mg/kg		0.454	0.454	0.714	6 / 6	0.5947
Inorganic	Silver	mg/kg	0.00255 / 0.0058	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		347.3	347.3	419.5	6 / 6	388.3
Inorganic	Strontium	mg/kg	0.01365 / 0.1108	ND	0.1677	0.294	2 / 6	0.2309
Inorganic	Thallium	mg/kg	0.01253 / 0.01778	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0464 / 0.05221	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.516	5.516	9.321	6 / 6	8.078
Physical Properties	% Lipids	%		0.58	0.58	7.3	6 / 6	3.047

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-33: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	1.002 / 1.002	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.01937 / 0.01937	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.314	0.314	0.314	1 / 1	0.314
Inorganic	Barium	mg/kg		0.7014	0.7014	0.7014	1 / 1	0.7014
Inorganic	Beryllium	mg/kg	0.00334 / 0.00334	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.1102 / 0.1102	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.01035 / 0.01035	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		15431	15431	15431	1 / 1	15431
Inorganic	Chromium	mg/kg	0.1236 / 0.1236	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg	0.03073 / 0.03073	ND	ND	ND	0 / 1	0
Inorganic	Copper	mg/kg		0.5678	0.5678	0.5678	1 / 1	0.5678
Inorganic	Iron	mg/kg		22.98	22.98	22.98	1 / 1	22.98
Inorganic	Lead	mg/kg	0.01804 / 0.01804	ND	ND	ND	0 / 1	0
Inorganic	Magnesium	mg/kg		424.2	424.2	424.2	1 / 1	424.2
Inorganic	Manganese	mg/kg		2.639	2.639	2.639	1 / 1	2.639
Inorganic	Mercury	mg/kg		0.0334	0.0334	0.0334	1 / 1	0.0334
Inorganic	Molybdenum	mg/kg	0.02271 / 0.02271	ND	ND	ND	0 / 1	0
Inorganic	Nickel	mg/kg		0.05678	0.05678	0.05678	1 / 1	0.05678
Inorganic	Potassium	mg/kg		2144	2144	2144	1 / 1	2144
Inorganic	Selenium	mg/kg		0.6346	0.6346	0.6346	1 / 1	0.6346
Inorganic	Silver	mg/kg	0.00301 / 0.00301	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1510	1510	1510	1 / 1	1510
Inorganic	Strontium	mg/kg		14.8	14.8	14.8	1 / 1	14.8
Inorganic	Thallium	mg/kg	0.01536 / 0.01536	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg	0.05344 / 0.05344	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		19.07	19.07	19.07	1 / 1	19.07
Physical Properties	% Lipids	%		9.9	9.9	9.9	1 / 1	9.9
Physical Properties	% Moisture	%		66.6	66.6	66.6	1 / 1	66.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-34: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8721 / 4.114	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.01324 / 0.01938	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.3553	0.3553	0.68	4 / 4	0.5203
Inorganic	Barium	mg/kg		0.5814	0.5814	1.292	4 / 4	1.023
Inorganic	Beryllium	mg/kg	0.00323 / 0.03026	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.08721 / 0.442	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00918 / 0.03133	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		18346	18346	46240	4 / 4	28866
Inorganic	Chromium	mg/kg	0.1227 / 2.34	ND	0.85	0.85	1 / 4	0.85
Inorganic	Cobalt	mg/kg	0.00485 / 0.0342	ND	0.05814	0.05814	1 / 4	0.05814
Inorganic	Copper	mg/kg	0.1809 / 2.482	ND	0.5491	0.5491	1 / 4	0.5491
Inorganic	Iron	mg/kg		13.02	13.02	18.16	4 / 4	15.96
Inorganic	Lead	mg/kg	0.01066 / 0.02552	ND	0.02746	0.0476	3 / 4	0.03426
Inorganic	Magnesium	mg/kg		461.9	461.9	914.6	4 / 4	675.1
Inorganic	Manganese	mg/kg		2.293	2.293	4.974	4 / 4	3.617
Inorganic	Mercury	mg/kg		0.04522	0.04522	0.0646	4 / 4	0.05106
Inorganic	Molybdenum	mg/kg	0.02358 / 0.0374	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.0323 / 2.482	ND	0.04199	0.04199	1 / 4	0.04199
Inorganic	Potassium	mg/kg		2225	2225	2615	4 / 4	2379
Inorganic	Selenium	mg/kg		0.578	0.578	1.008	4 / 4	0.768
Inorganic	Silver	mg/kg	0.00265 / 0.00549	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1463	1463	2098	4 / 4	1782
Inorganic	Strontium	mg/kg		13.66	13.66	39.1	4 / 4	24.38
Inorganic	Thallium	mg/kg	0.0126 / 0.01486	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.05491 / 0.34	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		17.31	17.31	28.59	4 / 4	23.76
Physical Properties	% Lipids	%		9.1	9.1	9.1	1 / 1	9.1
Physical Properties	% Moisture	%		67.7	67.7	67.7	1 / 1	67.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-35: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	1.387 / 3.72	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01691 / 0.1088	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.05952	0.05952	0.2354	6 / 6	0.163
Inorganic	Barium	mg/kg	0.01805 / 0.01901	ND	0.0266	0.1027	4 / 6	0.05426
Inorganic	Beryllium	mg/kg	0.00285 / 0.0032	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.057 / 0.06864	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00532 / 0.02176	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		137.1	137.1	346	6 / 6	209.7
Inorganic	Chromium	mg/kg		0.2568	0.2568	0.56	6 / 6	0.353
Inorganic	Cobalt	mg/kg	0.0048 / 0.02198	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1862	0.1862	0.444	6 / 6	0.2976
Inorganic	Iron	mg/kg	10.96 / 12.34	ND	19.49	19.49	1 / 6	19.49
Inorganic	Lead	mg/kg	0.00931 / 0.0104	ND	0.06448	1.177	2 / 6	0.6207
Inorganic	Magnesium	mg/kg		255.4	255.4	276	6 / 6	268.4
Inorganic	Manganese	mg/kg		0.131	0.131	0.26	6 / 6	0.1774
Inorganic	Mercury	mg/kg		0.06656	0.06656	0.3072	6 / 6	0.1104
Inorganic	Molybdenum	mg/kg	0.0095 / 0.0144	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.0428	0.0428	0.102	6 / 6	0.07052
Inorganic	Potassium	mg/kg		3474	3474	3895	6 / 6	3636
Inorganic	Selenium	mg/kg		0.54	0.54	0.7872	6 / 6	0.6705
Inorganic	Silver	mg/kg	0.00266 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		336	336	433.9	6 / 6	372.6
Inorganic	Strontium	mg/kg	0.07488 / 0.26	ND	ND	ND	0 / 6	0
Inorganic	Thallium	mg/kg	0.01292 / 0.0146	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0475 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.685	4.685	12.81	6 / 6	9.895
Physical Properties	% Lipids	%		0.64	0.64	4.5	6 / 6	2.11

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-36: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.88 / 4	ND	6.6	8.5	2 / 4	7.55
Inorganic	Antimony	mg/kg	0.013 / 0.019	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.33	0.33	0.66	4 / 4	0.51
Inorganic	Barium	mg/kg		0.56	0.56	1.5	4 / 4	1.14
Inorganic	Beryllium	mg/kg	0.0033 / 0.031	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.072 / 0.43	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.012 / 0.049	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		22300	22300	38000	4 / 4	29225
Inorganic	Chromium	mg/kg	0.12 / 0.66	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.013 / 0.026	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.18 / 0.75	ND	0.46	0.46	1 / 4	0.46
Inorganic	Iron	mg/kg		13.1	13.1	37.9	4 / 4	19.78
Inorganic	Lead	mg/kg	0.011 / 0.028	ND	0.014	0.043	3 / 4	0.029
Inorganic	Magnesium	mg/kg		492	492	880	4 / 4	690.3
Inorganic	Manganese	mg/kg		2.4	2.4	3.4	4 / 4	2.975
Inorganic	Mercury	mg/kg		0.046	0.046	0.071	4 / 4	0.061
Inorganic	Molybdenum	mg/kg	0.016 / 0.036	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.033 / 0.51	ND	0.093	0.093	1 / 4	0.093
Inorganic	Potassium	mg/kg		2110	2110	2550	4 / 4	2415
Inorganic	Selenium	mg/kg		0.46	0.46	0.63	4 / 4	0.55
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1290	1290	2200	4 / 4	1853
Inorganic	Strontium	mg/kg		16.4	16.4	27.9	4 / 4	20.7
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.055 / 0.35	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg	0.59 / 11.3	ND	11.2	20.8	3 / 4	16.63
Physical Properties	% Lipids	%		8.7	8.7	8.7	1 / 1	8.7
Physical Properties	% Moisture	%		68.5	68.5	68.5	1 / 1	68.5

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-37: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	1.6 / 4.6	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.018 / 0.035	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.16	0.16	0.23	6 / 6	0.2017
Inorganic	Barium	mg/kg	0.018 / 0.02	ND	0.023	0.036	2 / 6	0.0295
Inorganic	Beryllium	mg/kg	0.0029 / 0.0032	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.058 / 0.065	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0055 / 0.04	ND	0.043	0.051	2 / 6	0.047
Inorganic	Calcium	mg/kg		130	130	1210	6 / 6	371
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.13	0.43	4 / 6	0.22
Inorganic	Cobalt	mg/kg	0.0046 / 0.0095	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.17	0.17	0.25	6 / 6	0.2217
Inorganic	Iron	mg/kg	11.2 / 12.2	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg		0.016	0.016	0.37	6 / 6	0.1518
Inorganic	Magnesium	mg/kg		267	267	318	6 / 6	284.7
Inorganic	Manganese	mg/kg	0.12 / 0.21	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.046	0.046	0.12	6 / 6	0.08583
Inorganic	Molybdenum	mg/kg	0.0097 / 0.013	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.031	0.031	0.14	6 / 6	0.073
Inorganic	Potassium	mg/kg		3390	3390	3780	6 / 6	3645
Inorganic	Selenium	mg/kg		0.42	0.42	0.53	6 / 6	0.475
Inorganic	Silver	mg/kg	0.0027 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		330	330	488	6 / 6	407
Inorganic	Strontium	mg/kg		0.058	0.058	0.82	6 / 6	0.2315
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.049 / 0.054	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.3	7.3	12.7	6 / 6	9.167
Physical Properties	% Lipids	%		0.49	0.49	2.7	6 / 6	1.652

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-38: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8602 / 4.126	ND	5.127	5.127	1 / 4	5.127
Inorganic	Antimony	mg/kg	0.015 / 0.01915	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.2952	0.2952	0.8525	4 / 4	0.5747
Inorganic	Barium	mg/kg		0.5236	0.5236	1.633	4 / 4	1.083
Inorganic	Beryllium	mg/kg	0.00322 / 0.03054	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.06358 / 0.4147	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00598 / 0.01159	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		23487	23487	50868	4 / 4	33885
Inorganic	Chromium	mg/kg	0.1197 / 2.489	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.00486 / 0.02575	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.1758 / 2.489	ND	0.3454	0.3553	2 / 4	0.3504
Inorganic	Iron	mg/kg		14.19	14.19	17.91	4 / 4	16.05
Inorganic	Lead	mg/kg	0.01047 / 0.02865	ND	0.01384	0.03454	2 / 4	0.02419
Inorganic	Magnesium	mg/kg		576	576	979.7	4 / 4	762.4
Inorganic	Manganese	mg/kg		1.346	1.346	6.688	4 / 4	3.228
Inorganic	Mercury	mg/kg		0.02558	0.02558	0.03703	4 / 4	0.0302
Inorganic	Molybdenum	mg/kg	0.01197 / 0.03751	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.0374 / 2.489	ND	ND	ND	0 / 4	0
Inorganic	Potassium	mg/kg		1944	1944	2503	4 / 4	2243
Inorganic	Selenium	mg/kg		0.748	0.748	1.169	4 / 4	0.8886
Inorganic	Silver	mg/kg	0.00292 / 0.00301	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1625	1625	2214	4 / 4	1854
Inorganic	Strontium	mg/kg		21.06	21.06	37.68	4 / 4	28.04
Inorganic	Thallium	mg/kg	0.01421 / 0.01507	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.1073 / 0.377	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		16.72	16.72	29.46	4 / 4	23.83
Physical Properties	% Lipids	%		4.1	4.1	6.1	2 / 2	5.1
Physical Properties	% Moisture	%		62.6	62.6	68.6	2 / 2	65.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-39: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.7668 / 1.982	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.01661 / 0.01778	ND	0.02769	0.2053	4 / 5	0.1157
Inorganic	Arsenic	mg/kg		0.141	0.141	0.4047	5 / 5	0.2602
Inorganic	Barium	mg/kg	0.01768 / 0.0188	ND	0.02475	0.06136	4 / 5	0.04094
Inorganic	Beryllium	mg/kg	0.00277 / 0.00329	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.05538 / 0.06345	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.00564 / 0.0376	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		93.44	93.44	549.5	5 / 5	294.5
Inorganic	Chromium	mg/kg		0.1274	0.1274	0.27	5 / 5	0.1835
Inorganic	Cobalt	mg/kg	0.00426 / 0.00684	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg		0.3195	0.3195	1.062	5 / 5	0.4931
Inorganic	Iron	mg/kg	10.8 / 12.24	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg		0.0198	0.0198	1.817	5 / 5	0.8495
Inorganic	Magnesium	mg/kg		183.1	183.1	305.5	5 / 5	256.9
Inorganic	Manganese	mg/kg		0.08325	0.08325	0.177	5 / 5	0.1188
Inorganic	Mercury	mg/kg		0.01581	0.01581	0.07332	5 / 5	0.04848
Inorganic	Molybdenum	mg/kg	0.00937 / 0.01058	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.036 / 0.0752	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2620	2620	4160	5 / 5	3467
Inorganic	Selenium	mg/kg		0.7332	0.7332	0.9165	5 / 5	0.7961
Inorganic	Silver	mg/kg	0.00256 / 0.00306	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		328	328	446	5 / 5	386.5
Inorganic	Strontium	mg/kg		0.03948	0.03948	0.4686	5 / 5	0.2265
Inorganic	Thallium	mg/kg	0.01278 / 0.01434	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.09521 / 0.1074	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		9.344	9.344	35.87	5 / 5	16
Physical Properties	% Lipids	%		0.98	0.98	2.3	5 / 5	1.736
Physical Properties	% Moisture	%		76.4	76.4	81.2	5 / 5	78.06

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-40: TVA Sampling, Fall 2009 - Largemouth Bass Carcass at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.8625 / 20.1	ND	ND	ND	0 / 4	0
Inorganic	Antimony	mg/kg	0.014 / 0.01929	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.2	0.2	0.61	4 / 4	0.4061
Inorganic	Barium	mg/kg		0.728	0.728	2	4 / 4	1.264
Inorganic	Beryllium	mg/kg	0.00311 / 0.15	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.0621 / 2.1	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.00552 / 0.038	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		29775	29775	36400	4 / 4	33086
Inorganic	Chromium	mg/kg	0.1173 / 0.64	ND	ND	ND	0 / 4	0
Inorganic	Cobalt	mg/kg	0.01484 / 0.071	ND	ND	ND	0 / 4	0
Inorganic	Copper	mg/kg	0.1691 / 0.72	ND	0.414	0.4368	2 / 4	0.4254
Inorganic	Iron	mg/kg	12.42 / 60.4	ND	16.49	54.24	2 / 4	35.37
Inorganic	Lead	mg/kg	0.02277 / 0.04732	ND	ND	ND	0 / 4	0
Inorganic	Magnesium	mg/kg		622.4	622.4	879	4 / 4	755.8
Inorganic	Manganese	mg/kg		2.243	2.243	7	4 / 4	3.903
Inorganic	Mercury	mg/kg	0.00414 / 0.00437	ND	0.019	0.044	3 / 4	0.03055
Inorganic	Molybdenum	mg/kg	0.01035 / 0.18	ND	ND	ND	0 / 4	0
Inorganic	Nickel	mg/kg	0.0314 / 0.49	ND	0.04004	0.05175	2 / 4	0.0459
Inorganic	Potassium	mg/kg		1866	1866	2400	4 / 4	2115
Inorganic	Selenium	mg/kg		0.41	0.41	0.57	4 / 4	0.4754
Inorganic	Silver	mg/kg	0.00283 / 0.015	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1645	1645	1860	4 / 4	1727
Inorganic	Strontium	mg/kg		20.97	20.97	36.3	4 / 4	28.91
Inorganic	Thallium	mg/kg	0.013 / 0.01893	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.05175 / 0.23	ND	ND	ND	0 / 4	0
Inorganic	Zinc	mg/kg		20.35	20.35	25.1	4 / 4	23.01
Physical Properties	% Lipids	%		9	9	11.5	2 / 2	10.25
Physical Properties	% Moisture	%		63.6	63.6	65.5	2 / 2	64.55

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-41: TVA Sampling, Fall 2009 - Largemouth Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	1.511 / 2.94	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01739 / 0.01929	ND	0.04872	0.207	3 / 6	0.1225
Inorganic	Arsenic	mg/kg		0.05858	0.05858	0.2892	6 / 6	0.1892
Inorganic	Barium	mg/kg		0.01863	0.01863	0.04263	6 / 6	0.03041
Inorganic	Beryllium	mg/kg	0.0029 / 0.00325	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.05796 / 0.06496	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00566 / 0.01615	ND	0.1212	0.1212	1 / 6	0.1212
Inorganic	Calcium	mg/kg		265	265	1192	6 / 6	617.6
Inorganic	Chromium	mg/kg		0.135	0.135	0.4646	6 / 6	0.238
Inorganic	Cobalt	mg/kg	0.0047 / 0.01279	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1827	0.1827	0.2892	6 / 6	0.2415
Inorganic	Iron	mg/kg	10.91 / 11.97	ND	13.97	13.97	1 / 6	13.97
Inorganic	Lead	mg/kg	0.00952 / 0.01475	ND	0.1567	2.298	5 / 6	0.8816
Inorganic	Magnesium	mg/kg		279.6	279.6	298.4	6 / 6	289.8
Inorganic	Manganese	mg/kg		0.1201	0.1201	0.2436	6 / 6	0.1789
Inorganic	Mercury	mg/kg		0.03374	0.03374	0.06868	6 / 6	0.05217
Inorganic	Molybdenum	mg/kg	0.00973 / 0.01076	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg		0.03105	0.03105	0.2222	6 / 6	0.06987
Inorganic	Potassium	mg/kg		3309	3309	3575	6 / 6	3450
Inorganic	Selenium	mg/kg		0.3519	0.3519	0.5858	6 / 6	0.4191
Inorganic	Silver	mg/kg	0.00269 / 0.00305	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		333.2	333.2	403.7	6 / 6	375.8
Inorganic	Strontium	mg/kg		0.1739	0.1739	0.9048	6 / 6	0.5083
Inorganic	Thallium	mg/kg	0.01325 / 0.01462	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04968 / 0.05481	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.981	7.981	10.82	6 / 6	9.164
Physical Properties	% Lipids	%		0.23	0.23	4.9	6 / 6	2.397

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table H-42: TVA Sampling, Fall 2009 - Threadfin Shad Whole Body at East Embayment

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		114	114	199	3 / 3	144.3
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.4	0.4	0.52	3 / 3	0.44
Inorganic	Barium	mg/kg		4.5	4.5	5	3 / 3	4.733
Inorganic	Beryllium	mg/kg	0.003 / 0.0081	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.06 / 0.06	ND	0.07	0.083	2 / 3	0.0765
Inorganic	Cadmium	mg/kg	0.0055 / 0.0059	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		9610	9610	11200	3 / 3	10403
Inorganic	Chromium	mg/kg		0.19	0.19	0.27	3 / 3	0.2233
Inorganic	Cobalt	mg/kg	0.0048 / 0.092	ND	0.12	0.12	1 / 3	0.12
Inorganic	Copper	mg/kg		0.93	0.93	1	3 / 3	0.97
Inorganic	Iron	mg/kg		107	107	175	3 / 3	130.3
Inorganic	Lead	mg/kg		0.087	0.087	0.14	3 / 3	0.1057
Inorganic	Magnesium	mg/kg		293	293	327	3 / 3	312.7
Inorganic	Manganese	mg/kg		37.5	37.5	39.7	3 / 3	38.67
Inorganic	Mercury	mg/kg	0.011 / 0.017	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.068 / 0.084	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.13	0.13	0.22	3 / 3	0.1667
Inorganic	Potassium	mg/kg		1830	1830	2100	3 / 3	1950
Inorganic	Selenium	mg/kg		0.73	0.73	0.83	3 / 3	0.7733
Inorganic	Silver	mg/kg	0.0029 / 0.0041	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		613	613	705	3 / 3	653.3
Inorganic	Strontium	mg/kg		8	8	8.7	3 / 3	8.333
Inorganic	Thallium	mg/kg	0.019 / 0.024	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.26	0.26	0.42	3 / 3	0.3167
Inorganic	Zinc	mg/kg		27.1	27.1	30.1	3 / 3	28.27
Physical Properties	% Lipids	%		1.4	1.4	2	3 / 3	1.7
Physical Properties	% Moisture	%		82	82	82.8	3 / 3	82.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX I

Tennessee Aquarium / Appalachian State University (Splits), Winter 2010

Table I- 1: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Black Crappie Fillet at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.83 / 0.83	ND	1.5	1.5	1 / 2	1.5
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		0.66	0.66	1.3	2 / 2	0.98
Inorganic	Barium	mg/kg		0.095	0.095	0.13	2 / 2	0.1125
Inorganic	Beryllium	mg/kg	0.0031 / 0.0031	ND	0.0099	0.0099	1 / 2	0.0099
Inorganic	Boron	mg/kg	0.06 / 0.06	ND	0.11	0.11	1 / 2	0.11
Inorganic	Cadmium	mg/kg	0.0056 / 0.0056	ND	0.0077	0.0077	1 / 2	0.0077
Inorganic	Calcium	mg/kg		1020	1020	1830	2 / 2	1425
Inorganic	Chromium	mg/kg		0.14	0.14	0.16	2 / 2	0.15
Inorganic	Cobalt	mg/kg		0.0064	0.0064	0.015	2 / 2	0.0107
Inorganic	Copper	mg/kg		0.69	0.69	1.1	2 / 2	0.895
Inorganic	Iron	mg/kg	11.7 / 12.3	ND	ND	ND	0 / 2	0
Inorganic	Lead	mg/kg		0.019	0.019	0.34	2 / 2	0.1795
Inorganic	Magnesium	mg/kg		1450	1450	1480	2 / 2	1465
Inorganic	Manganese	mg/kg		0.46	0.46	1.1	2 / 2	0.78
Inorganic	Mercury	mg/kg		0.076	0.076	0.16	2 / 2	0.118
Inorganic	Molybdenum	mg/kg	0.01 / 0.011	ND	ND	ND	0 / 2	0
Inorganic	Nickel	mg/kg		0.05	0.05	0.072	2 / 2	0.061
Inorganic	Potassium	mg/kg		20800	20800	22300	2 / 2	21550
Inorganic	Selenium	mg/kg		1.8	1.8	2.5	2 / 2	2.15
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		1110	1110	1130	2 / 2	1120
Inorganic	Strontium	mg/kg		0.65	0.65	1.3	2 / 2	0.975
Inorganic	Thallium	mg/kg		0.048	0.048	0.062	2 / 2	0.055
Inorganic	Vanadium	mg/kg	0.051 / 0.054	ND	ND	ND	0 / 2	0
Inorganic	Zinc	mg/kg		21.1	21.1	22.2	2 / 2	21.65
Physical Properties	% Lipids	%		2	2	3.7	2 / 2	2.85

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 2: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Black Crappie Liver at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		2.5	2.5	2.5	1 / 1	2.5
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		3.2	3.2	3.2	1 / 1	3.2
Inorganic	Barium	mg/kg	0.027 / 0.027	ND	ND	ND	0 / 1	0
Inorganic	Beryllium	mg/kg	0.0033 / 0.0033	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.064 / 0.064	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg		0.051	0.051	0.051	1 / 1	0.051
Inorganic	Calcium	mg/kg		132	132	132	1 / 1	132
Inorganic	Chromium	mg/kg		0.26	0.26	0.26	1 / 1	0.26
Inorganic	Cobalt	mg/kg		0.068	0.068	0.068	1 / 1	0.068
Inorganic	Copper	mg/kg		7.9	7.9	7.9	1 / 1	7.9
Inorganic	Iron	mg/kg		203	203	203	1 / 1	203
Inorganic	Lead	mg/kg		0.052	0.052	0.052	1 / 1	0.052
Inorganic	Magnesium	mg/kg		722	722	722	1 / 1	722
Inorganic	Manganese	mg/kg		2.7	2.7	2.7	1 / 1	2.7
Inorganic	Mercury	mg/kg		0.06	0.06	0.06	1 / 1	0.06
Inorganic	Molybdenum	mg/kg		0.33	0.33	0.33	1 / 1	0.33
Inorganic	Nickel	mg/kg		0.17	0.17	0.17	1 / 1	0.17
Inorganic	Potassium	mg/kg		11300	11300	11300	1 / 1	11300
Inorganic	Selenium	mg/kg		6.3	6.3	6.3	1 / 1	6.3
Inorganic	Silver	mg/kg		0.01	0.01	0.01	1 / 1	0.01
Inorganic	Sodium	mg/kg		3160	3160	3160	1 / 1	3160
Inorganic	Strontium	mg/kg		0.14	0.14	0.14	1 / 1	0.14
Inorganic	Thallium	mg/kg		0.13	0.13	0.13	1 / 1	0.13
Inorganic	Vanadium	mg/kg		0.12	0.12	0.12	1 / 1	0.12
Inorganic	Zinc	mg/kg		91.4	91.4	91.4	1 / 1	91.4

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 3: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Black Crappie Ovary at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3	3	3	1 / 1	3
Inorganic	Antimony	mg/kg	0.017 / 0.017	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		1	1	1	1 / 1	1
Inorganic	Barium	mg/kg		0.14	0.14	0.14	1 / 1	0.14
Inorganic	Beryllium	mg/kg	0.0029 / 0.0029	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.057 / 0.057	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.0053 / 0.0053	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		317	317	317	1 / 1	317
Inorganic	Chromium	mg/kg	0.11 / 0.11	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg		0.094	0.094	0.094	1 / 1	0.094
Inorganic	Copper	mg/kg		3.6	3.6	3.6	1 / 1	3.6
Inorganic	Iron	mg/kg		48.7	48.7	48.7	1 / 1	48.7
Inorganic	Lead	mg/kg		0.051	0.051	0.051	1 / 1	0.051
Inorganic	Magnesium	mg/kg		987	987	987	1 / 1	987
Inorganic	Manganese	mg/kg		3.2	3.2	3.2	1 / 1	3.2
Inorganic	Mercury	mg/kg		0.009	0.009	0.009	1 / 1	0.009
Inorganic	Molybdenum	mg/kg		0.099	0.099	0.099	1 / 1	0.099
Inorganic	Nickel	mg/kg		0.14	0.14	0.14	1 / 1	0.14
Inorganic	Potassium	mg/kg		12000	12000	12000	1 / 1	12000
Inorganic	Selenium	mg/kg		4.2	4.2	4.2	1 / 1	4.2
Inorganic	Silver	mg/kg	0.0027 / 0.0027	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		2330	2330	2330	1 / 1	2330
Inorganic	Strontium	mg/kg		0.3	0.3	0.3	1 / 1	0.3
Inorganic	Thallium	mg/kg		0.06	0.06	0.06	1 / 1	0.06
Inorganic	Vanadium	mg/kg	0.049 / 0.049	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		164	164	164	1 / 1	164
Physical Properties	% Lipids	%		20.6	20.6	20.6	1 / 1	20.6

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 4: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Bluegill Whole Body at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4 / 25.1	ND	7.1	712	24 / 34	89.65
Inorganic	Antimony	mg/kg	0.035 / 0.039	ND	ND	ND	0 / 34	0
Inorganic	Arsenic	mg/kg		0.45	0.45	1.5	34 / 34	0.8056
Inorganic	Barium	mg/kg		3.7	3.7	12.8	34 / 34	6.179
Inorganic	Beryllium	mg/kg	0.0061 / 0.016	ND	0.0068	0.095	11 / 34	0.02127
Inorganic	Boron	mg/kg	0.12 / 0.32	ND	0.3	0.9	3 / 34	0.6067
Inorganic	Cadmium	mg/kg	0.027 / 0.03	ND	0.028	0.063	11 / 34	0.04145
Inorganic	Calcium	mg/kg		48300	48300	112000	34 / 34	69541
Inorganic	Chromium	mg/kg	0.55 / 0.56	ND	0.6	4.9	33 / 34	1.43
Inorganic	Cobalt	mg/kg		0.049	0.049	0.53	34 / 34	0.1273
Inorganic	Copper	mg/kg		1.1	1.1	2.7	34 / 34	1.579
Inorganic	Iron	mg/kg	55.9 / 62.5	ND	62.1	601	22 / 34	127.9
Inorganic	Lead	mg/kg		0.1	0.1	1.2	34 / 34	0.3571
Inorganic	Magnesium	mg/kg		1700	1700	2810	34 / 34	2135
Inorganic	Manganese	mg/kg		29.5	29.5	108	34 / 34	52.39
Inorganic	Mercury	mg/kg		0.029	0.029	0.18	34 / 34	0.05821
Inorganic	Molybdenum	mg/kg		0.077	0.077	0.64	34 / 34	0.171
Inorganic	Nickel	mg/kg		0.22	0.22	1.6	34 / 34	0.59
Inorganic	Potassium	mg/kg		8680	8680	11800	34 / 34	10608
Inorganic	Selenium	mg/kg		1.2	1.2	3.7	34 / 34	2.003
Inorganic	Silver	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 34	0
Inorganic	Sodium	mg/kg		3190	3190	5940	34 / 34	4419
Inorganic	Strontium	mg/kg		42.3	42.3	108	34 / 34	63.4
Inorganic	Thallium	mg/kg	0.026 / 0.029	ND	0.028	0.12	17 / 34	0.05524
Inorganic	Vanadium	mg/kg	0.25 / 0.28	ND	0.29	2.7	31 / 34	0.7371
Inorganic	Zinc	mg/kg		81.9	81.9	175	34 / 34	136.7
Physical Properties	% Lipids	%		2.8	2.8	13.9	34 / 34	8.353

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 5: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Gizzard Shad Fillet at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		18.7	18.7	139	4 / 4	60.35
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.51	4 / 4	0.2825
Inorganic	Barium	mg/kg		2	2	4.4	4 / 4	2.85
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	0.004	0.018	3 / 4	0.009633
Inorganic	Boron	mg/kg	0.06 / 0.064	ND	0.11	0.11	1 / 4	0.11
Inorganic	Cadmium	mg/kg	0.0055 / 0.006	ND	0.0096	0.0096	1 / 4	0.0096
Inorganic	Calcium	mg/kg		5580	5580	8670	4 / 4	7463
Inorganic	Chromium	mg/kg		0.16	0.16	0.78	4 / 4	0.46
Inorganic	Cobalt	mg/kg		0.05	0.05	0.14	4 / 4	0.0775
Inorganic	Copper	mg/kg		1.5	1.5	4	4 / 4	2.45
Inorganic	Iron	mg/kg		52.4	52.4	161	4 / 4	86.33
Inorganic	Lead	mg/kg		0.077	0.077	0.38	4 / 4	0.1648
Inorganic	Magnesium	mg/kg		1040	1040	1280	4 / 4	1148
Inorganic	Manganese	mg/kg		9.6	9.6	33.2	4 / 4	20.95
Inorganic	Mercury	mg/kg		0.052	0.052	0.069	4 / 4	0.0595
Inorganic	Molybdenum	mg/kg		0.016	0.016	0.031	4 / 4	0.021
Inorganic	Nickel	mg/kg		0.11	0.11	0.39	4 / 4	0.2075
Inorganic	Potassium	mg/kg		16200	16200	19800	4 / 4	18125
Inorganic	Selenium	mg/kg		1.2	1.2	4.2	4 / 4	2.8
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		2910	2910	4140	4 / 4	3353
Inorganic	Strontium	mg/kg		4	4	6.6	4 / 4	5.125
Inorganic	Thallium	mg/kg		0.026	0.026	0.067	4 / 4	0.04775
Inorganic	Vanadium	mg/kg		0.069	0.069	0.4	4 / 4	0.1798
Inorganic	Zinc	mg/kg		18.7	18.7	23.4	4 / 4	20.6
Physical Properties	% Lipids	%		4.3	4.3	8.2	4 / 4	6.75

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 6: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Gizzard Shad Whole Body at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		888	888	1610	4 / 4	1290
Inorganic	Antimony	mg/kg		0.047	0.047	0.074	4 / 4	0.06125
Inorganic	Arsenic	mg/kg		1.9	1.9	3.2	4 / 4	2.55
Inorganic	Barium	mg/kg		22.6	22.6	50.3	4 / 4	32.63
Inorganic	Beryllium	mg/kg		0.089	0.089	0.14	4 / 4	0.1173
Inorganic	Boron	mg/kg		0.71	0.71	1.3	4 / 4	1.063
Inorganic	Cadmium	mg/kg		0.08	0.08	0.16	4 / 4	0.1225
Inorganic	Calcium	mg/kg		24600	24600	68100	4 / 4	47825
Inorganic	Chromium	mg/kg		2.3	2.3	4	4 / 4	2.95
Inorganic	Cobalt	mg/kg		0.76	0.76	1.4	4 / 4	1.135
Inorganic	Copper	mg/kg		5.2	5.2	7.9	4 / 4	6.175
Inorganic	Iron	mg/kg		992	992	1810	4 / 4	1423
Inorganic	Lead	mg/kg		1.1	1.1	2.5	4 / 4	1.95
Inorganic	Magnesium	mg/kg		1030	1030	1570	4 / 4	1325
Inorganic	Manganese	mg/kg		141	141	395	4 / 4	263.8
Inorganic	Mercury	mg/kg		0.18	0.18	0.35	4 / 4	0.2275
Inorganic	Molybdenum	mg/kg		0.14	0.14	0.19	4 / 4	0.175
Inorganic	Nickel	mg/kg		1.4	1.4	2.3	4 / 4	1.875
Inorganic	Potassium	mg/kg		8790	8790	10900	4 / 4	10098
Inorganic	Selenium	mg/kg		2.8	2.8	3.8	4 / 4	3.375
Inorganic	Silver	mg/kg		0.0068	0.0068	0.027	4 / 4	0.0136
Inorganic	Sodium	mg/kg		3210	3210	5480	4 / 4	4460
Inorganic	Strontium	mg/kg		23.5	23.5	61.2	4 / 4	39.68
Inorganic	Thallium	mg/kg		0.093	0.093	0.14	4 / 4	0.1183
Inorganic	Vanadium	mg/kg		2.7	2.7	4.1	4 / 4	3.425
Inorganic	Zinc	mg/kg		41.6	41.6	95.3	4 / 4	64.48
Physical Properties	% Lipids	%		6.4	6.4	14.5	4 / 4	10.93

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 7: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Fillet at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.83 / 0.85	ND	0.94	5.5	7 / 8	2.206
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg		1	1	1.7	8 / 8	1.35
Inorganic	Barium	mg/kg		0.049	0.049	0.11	8 / 8	0.07775
Inorganic	Beryllium	mg/kg	0.0031 / 0.0033	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.061 / 0.064	ND	0.067	0.067	1 / 8	0.067
Inorganic	Cadmium	mg/kg	0.0056 / 0.0059	ND	0.0073	0.016	3 / 8	0.01043
Inorganic	Calcium	mg/kg		1140	1140	2250	8 / 8	1673
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.2	0.39	6 / 8	0.2867
Inorganic	Cobalt	mg/kg		0.018	0.018	0.025	8 / 8	0.02163
Inorganic	Copper	mg/kg		1.1	1.1	1.4	8 / 8	1.238
Inorganic	Iron	mg/kg	11.8 / 12.5	ND	12.3	14.1	4 / 8	12.98
Inorganic	Lead	mg/kg		0.01	0.01	0.16	8 / 8	0.037
Inorganic	Magnesium	mg/kg		1170	1170	1470	8 / 8	1340
Inorganic	Manganese	mg/kg		0.48	0.48	1	8 / 8	0.7913
Inorganic	Mercury	mg/kg		0.09	0.09	0.25	8 / 8	0.1488
Inorganic	Molybdenum	mg/kg	0.01 / 0.011	ND	ND	ND	0 / 8	0
Inorganic	Nickel	mg/kg		0.05	0.05	0.28	8 / 8	0.1324
Inorganic	Potassium	mg/kg		16300	16300	22800	8 / 8	20100
Inorganic	Selenium	mg/kg		1.6	1.6	2.1	8 / 8	1.8
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		1150	1150	1430	8 / 8	1331
Inorganic	Strontium	mg/kg		0.73	0.73	1.5	8 / 8	1.118
Inorganic	Thallium	mg/kg		0.025	0.025	0.052	8 / 8	0.0375
Inorganic	Vanadium	mg/kg	0.052 / 0.055	ND	ND	ND	0 / 8	0
Inorganic	Zinc	mg/kg		21.6	21.6	36.5	8 / 8	27.6
Physical Properties	% Lipids	%		2.9	2.9	7.7	8 / 8	4.275

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 8: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Liver at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1.5	1.5	4.2	2 / 2	2.85
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		1.6	1.6	2.2	2 / 2	1.9
Inorganic	Barium	mg/kg	0.025 / 0.04	ND	ND	ND	0 / 2	0
Inorganic	Beryllium	mg/kg	0.003 / 0.0032	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	0.06 / 0.062	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg		0.097	0.097	5.6	2 / 2	2.849
Inorganic	Calcium	mg/kg		80.4	80.4	292	2 / 2	186.2
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 2	0
Inorganic	Cobalt	mg/kg		0.29	0.29	0.4	2 / 2	0.345
Inorganic	Copper	mg/kg		7.9	7.9	29.1	2 / 2	18.5
Inorganic	Iron	mg/kg		391	391	407	2 / 2	399
Inorganic	Lead	mg/kg		0.039	0.039	0.058	2 / 2	0.0485
Inorganic	Magnesium	mg/kg		437	437	748	2 / 2	592.5
Inorganic	Manganese	mg/kg		3.5	3.5	5	2 / 2	4.25
Inorganic	Mercury	mg/kg		0.032	0.032	0.11	2 / 2	0.071
Inorganic	Molybdenum	mg/kg		0.36	0.36	0.62	2 / 2	0.49
Inorganic	Nickel	mg/kg		0.12	0.12	0.23	2 / 2	0.175
Inorganic	Potassium	mg/kg		9840	9840	11900	2 / 2	10870
Inorganic	Selenium	mg/kg		3.9	3.9	5.7	2 / 2	4.8
Inorganic	Silver	mg/kg		0.0091	0.0091	0.058	2 / 2	0.03355
Inorganic	Sodium	mg/kg		1860	1860	3660	2 / 2	2760
Inorganic	Strontium	mg/kg		0.094	0.094	0.26	2 / 2	0.177
Inorganic	Thallium	mg/kg		0.085	0.085	0.13	2 / 2	0.1075
Inorganic	Vanadium	mg/kg		0.062	0.062	0.27	2 / 2	0.166
Inorganic	Zinc	mg/kg		49.4	49.4	108	2 / 2	78.7
Physical Properties	% Lipids	%		17.3	17.3	17.3	1 / 1	17.3

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I- 9: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Ovary at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		8.1	8.1	8.1	1 / 1	8.1
Inorganic	Antimony	mg/kg	0.018 / 0.018	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		1.1	1.1	1.1	1 / 1	1.1
Inorganic	Barium	mg/kg	0.07 / 0.07	ND	ND	ND	0 / 1	0
Inorganic	Beryllium	mg/kg	0.0031 / 0.0031	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.061 / 0.061	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg		0.049	0.049	0.049	1 / 1	0.049
Inorganic	Calcium	mg/kg		472	472	472	1 / 1	472
Inorganic	Chromium	mg/kg		0.17	0.17	0.17	1 / 1	0.17
Inorganic	Cobalt	mg/kg		0.16	0.16	0.16	1 / 1	0.16
Inorganic	Copper	mg/kg		5.3	5.3	5.3	1 / 1	5.3
Inorganic	Iron	mg/kg		91.9	91.9	91.9	1 / 1	91.9
Inorganic	Lead	mg/kg		0.14	0.14	0.14	1 / 1	0.14
Inorganic	Magnesium	mg/kg		826	826	826	1 / 1	826
Inorganic	Manganese	mg/kg		20	20	20	1 / 1	20
Inorganic	Mercury	mg/kg		0.04	0.04	0.04	1 / 1	0.04
Inorganic	Molybdenum	mg/kg		0.17	0.17	0.17	1 / 1	0.17
Inorganic	Nickel	mg/kg		0.067	0.067	0.067	1 / 1	0.067
Inorganic	Potassium	mg/kg		16500	16500	16500	1 / 1	16500
Inorganic	Selenium	mg/kg		3.8	3.8	3.8	1 / 1	3.8
Inorganic	Silver	mg/kg	0.0029 / 0.0029	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		3900	3900	3900	1 / 1	3900
Inorganic	Strontium	mg/kg		0.39	0.39	0.39	1 / 1	0.39
Inorganic	Thallium	mg/kg		0.039	0.039	0.039	1 / 1	0.039
Inorganic	Vanadium	mg/kg	0.052 / 0.052	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		210	210	210	1 / 1	210
Physical Properties	% Lipids	%		23	23	23	1 / 1	23

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-10: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Fillet at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.82 / 0.99	ND	0.89	0.9	2 / 5	0.895
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.73	0.73	0.97	5 / 5	0.87
Inorganic	Barium	mg/kg		0.029	0.029	0.12	5 / 5	0.0642
Inorganic	Beryllium	mg/kg	0.0031 / 0.0032	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.06 / 0.062	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0056 / 0.0058	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		689	689	5880	5 / 5	2053
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.13	0.39	4 / 5	0.225
Inorganic	Cobalt	mg/kg		0.005	0.005	0.026	5 / 5	0.01618
Inorganic	Copper	mg/kg		0.76	0.76	1.4	5 / 5	1.114
Inorganic	Iron	mg/kg	11.6 / 12	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.0099 / 0.011	ND	0.011	0.045	3 / 5	0.024
Inorganic	Magnesium	mg/kg		1380	1380	1760	5 / 5	1508
Inorganic	Manganese	mg/kg		0.58	0.58	1.7	5 / 5	0.986
Inorganic	Mercury	mg/kg		0.33	0.33	1.2	5 / 5	0.606
Inorganic	Molybdenum	mg/kg	0.01 / 0.01	ND	0.017	0.017	1 / 5	0.017
Inorganic	Nickel	mg/kg	0.031 / 0.031	ND	0.041	0.11	4 / 5	0.06675
Inorganic	Potassium	mg/kg		19300	19300	20500	5 / 5	20060
Inorganic	Selenium	mg/kg		2.2	2.2	3.8	5 / 5	3.02
Inorganic	Silver	mg/kg	0.0028 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		1770	1770	2950	5 / 5	2062
Inorganic	Strontium	mg/kg		0.32	0.32	4.4	5 / 5	1.42
Inorganic	Thallium	mg/kg		0.024	0.024	0.076	5 / 5	0.044
Inorganic	Vanadium	mg/kg	0.051 / 0.053	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		21.3	21.3	35	5 / 5	26.68
Physical Properties	% Lipids	%		3.3	3.3	4.7	5 / 5	3.64

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-11: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Liver at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.2	3.2	10.5	3 / 3	7.333
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1.5	1.5	2.4	3 / 3	1.967
Inorganic	Barium	mg/kg		0.027	0.027	0.044	3 / 3	0.03533
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.059 / 0.064	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.21	0.21	0.8	3 / 3	0.4167
Inorganic	Calcium	mg/kg		146	146	361	3 / 3	263.7
Inorganic	Chromium	mg/kg	0.11 / 0.11	ND	0.15	0.15	1 / 3	0.15
Inorganic	Cobalt	mg/kg		0.17	0.17	0.51	3 / 3	0.3367
Inorganic	Copper	mg/kg		10.2	10.2	51.4	3 / 3	25.1
Inorganic	Iron	mg/kg		139	139	1340	3 / 3	619.7
Inorganic	Lead	mg/kg		0.02	0.02	0.069	3 / 3	0.045
Inorganic	Magnesium	mg/kg		591	591	790	3 / 3	684.7
Inorganic	Manganese	mg/kg		4.5	4.5	4.9	3 / 3	4.667
Inorganic	Mercury	mg/kg		0.11	0.11	0.73	3 / 3	0.3233
Inorganic	Molybdenum	mg/kg		0.5	0.5	0.73	3 / 3	0.61
Inorganic	Nickel	mg/kg		0.047	0.047	0.14	3 / 3	0.08367
Inorganic	Potassium	mg/kg		10300	10300	11600	3 / 3	11067
Inorganic	Selenium	mg/kg		5.2	5.2	7.4	3 / 3	6.633
Inorganic	Silver	mg/kg		0.016	0.016	0.19	3 / 3	0.077
Inorganic	Sodium	mg/kg		2870	2870	6160	3 / 3	4323
Inorganic	Strontium	mg/kg		0.13	0.13	0.43	3 / 3	0.28
Inorganic	Thallium	mg/kg		0.15	0.15	0.25	3 / 3	0.1833
Inorganic	Vanadium	mg/kg		0.19	0.19	1.5	3 / 3	0.6333
Inorganic	Zinc	mg/kg		67.6	67.6	103	3 / 3	89.63
Physical Properties	% Lipids	%		16.3	16.3	23	2 / 2	19.65

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-11: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Liver at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.2	3.2	10.5	3 / 3	7.333
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1.5	1.5	2.4	3 / 3	1.967
Inorganic	Barium	mg/kg		0.027	0.027	0.044	3 / 3	0.03533
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.059 / 0.064	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.21	0.21	0.8	3 / 3	0.4167
Inorganic	Calcium	mg/kg		146	146	361	3 / 3	263.7
Inorganic	Chromium	mg/kg	0.11 / 0.11	ND	ND	0.15	2 / 3	0.15
Inorganic	Cobalt	mg/kg		0.17	0.17	0.51	3 / 3	0.3367
Inorganic	Copper	mg/kg		10.2	10.2	51.4	3 / 3	25.1
Inorganic	Iron	mg/kg		139	139	1340	3 / 3	619.7
Inorganic	Lead	mg/kg		0.02	0.02	0.069	3 / 3	0.045
Inorganic	Magnesium	mg/kg		591	591	790	3 / 3	684.7
Inorganic	Manganese	mg/kg		4.5	4.5	4.9	3 / 3	4.667
Inorganic	Mercury	mg/kg		0.11	0.11	0.73	3 / 3	0.3233
Inorganic	Molybdenum	mg/kg		0.5	0.5	0.73	3 / 3	0.61
Inorganic	Nickel	mg/kg		0.047	0.047	0.14	3 / 3	0.08367
Inorganic	Potassium	mg/kg		10300	10300	11600	3 / 3	11067
Inorganic	Selenium	mg/kg		5.2	5.2	7.4	3 / 3	6.633
Inorganic	Silver	mg/kg		0.016	0.016	0.19	3 / 3	0.077
Inorganic	Sodium	mg/kg		2870	2870	6160	3 / 3	4323
Inorganic	Strontium	mg/kg		0.13	0.13	0.43	3 / 3	0.28
Inorganic	Thallium	mg/kg		0.15	0.15	0.25	3 / 3	0.1833
Inorganic	Vanadium	mg/kg		0.19	0.19	1.5	3 / 3	0.6333
Inorganic	Zinc	mg/kg		67.6	67.6	103	3 / 3	89.63
Physical Properties	% Lipids	%		16.3	16.3	23	2 / 2	19.65

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-12: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Ovary at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		2.6	2.6	4.8	3 / 3	3.633
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.69	0.69	1.3	3 / 3	1.097
Inorganic	Barium	mg/kg		0.062	0.062	0.19	3 / 3	0.1157
Inorganic	Beryllium	mg/kg	0.0031 / 0.0032	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.06 / 0.063	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0056 / 0.0059	ND	0.0099	0.012	2 / 3	0.01095
Inorganic	Calcium	mg/kg		384	384	817	3 / 3	640.7
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.17	0.2	2 / 3	0.185
Inorganic	Cobalt	mg/kg		0.13	0.13	0.31	3 / 3	0.21
Inorganic	Copper	mg/kg		5.7	5.7	11.2	3 / 3	8
Inorganic	Iron	mg/kg		110	110	137	3 / 3	120.3
Inorganic	Lead	mg/kg	0.0099 / 0.01	ND	0.035	0.15	2 / 3	0.0925
Inorganic	Magnesium	mg/kg		762	762	856	3 / 3	813.7
Inorganic	Manganese	mg/kg		11	11	26.2	3 / 3	16.47
Inorganic	Mercury	mg/kg		0.033	0.033	0.061	3 / 3	0.04667
Inorganic	Molybdenum	mg/kg		0.13	0.13	0.21	3 / 3	0.1733
Inorganic	Nickel	mg/kg		0.057	0.057	0.092	3 / 3	0.074
Inorganic	Potassium	mg/kg		14200	14200	17000	3 / 3	15167
Inorganic	Selenium	mg/kg		4.2	4.2	4.9	3 / 3	4.633
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		2760	2760	2890	3 / 3	2813
Inorganic	Strontium	mg/kg		0.4	0.4	0.65	3 / 3	0.5667
Inorganic	Thallium	mg/kg		0.087	0.087	0.14	3 / 3	0.1123
Inorganic	Vanadium	mg/kg	0.051 / 0.054	ND	0.054	0.17	2 / 3	0.112
Inorganic	Zinc	mg/kg		147	147	216	3 / 3	174
Physical Properties	% Lipids	%		27.5	27.5	42	3 / 3	33.6

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-13: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Fillet at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.81 / 0.88	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.84	0.84	1.2	3 / 3	1.01
Inorganic	Barium	mg/kg		0.026	0.026	0.059	3 / 3	0.047
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	0.0037	0.0037	1 / 3	0.0037
Inorganic	Boron	mg/kg	0.059 / 0.064	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0055 / 0.0058	ND	0.026	0.026	1 / 3	0.026
Inorganic	Calcium	mg/kg		934	934	2010	3 / 3	1605
Inorganic	Chromium	mg/kg		0.18	0.18	0.38	3 / 3	0.2833
Inorganic	Cobalt	mg/kg		0.013	0.013	0.033	3 / 3	0.02167
Inorganic	Copper	mg/kg		1	1	1.1	3 / 3	1.033
Inorganic	Iron	mg/kg	11.4 / 12.5	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.01 / 0.011	ND	0.012	0.016	2 / 3	0.014
Inorganic	Magnesium	mg/kg		1320	1320	1360	3 / 3	1337
Inorganic	Manganese	mg/kg		0.83	0.83	1	3 / 3	0.89
Inorganic	Mercury	mg/kg		0.28	0.28	1.6	3 / 3	0.7833
Inorganic	Molybdenum	mg/kg		0.01	0.01	0.012	3 / 3	0.011
Inorganic	Nickel	mg/kg		0.064	0.064	0.099	3 / 3	0.085
Inorganic	Potassium	mg/kg		19300	19300	21100	3 / 3	20200
Inorganic	Selenium	mg/kg		2.4	2.4	2.7	3 / 3	2.567
Inorganic	Silver	mg/kg	0.0028 / 0.0029	ND	0.0037	0.0037	1 / 3	0.0037
Inorganic	Sodium	mg/kg		1840	1840	2260	3 / 3	2040
Inorganic	Strontium	mg/kg		0.57	0.57	1.4	3 / 3	1.023
Inorganic	Thallium	mg/kg		0.054	0.054	0.077	3 / 3	0.068
Inorganic	Vanadium	mg/kg	0.05 / 0.055	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		21.3	21.3	28.7	3 / 3	24.7
Physical Properties	% Lipids	%		1.1	1.1	5.9	3 / 3	3.667

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-14: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Liver at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		4.7	4.7	17.6	3 / 3	10.3
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1.8	1.8	2	3 / 3	1.867
Inorganic	Barium	mg/kg		0.036	0.036	0.039	3 / 3	0.037
Inorganic	Beryllium	mg/kg	0.0032 / 0.0033	ND	0.012	0.012	1 / 3	0.012
Inorganic	Boron	mg/kg		0.064	0.064	0.13	3 / 3	0.095
Inorganic	Cadmium	mg/kg		0.36	0.36	1.3	3 / 3	0.6833
Inorganic	Calcium	mg/kg		247	247	393	3 / 3	309.3
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.22	0.22	0.34	3 / 3	0.2733
Inorganic	Copper	mg/kg		11.1	11.1	36.3	3 / 3	21.5
Inorganic	Iron	mg/kg		492	492	680	3 / 3	564
Inorganic	Lead	mg/kg		0.037	0.037	0.052	3 / 3	0.045
Inorganic	Magnesium	mg/kg		690	690	786	3 / 3	725.7
Inorganic	Manganese	mg/kg		5.3	5.3	6.1	3 / 3	5.7
Inorganic	Mercury	mg/kg		0.14	0.14	1.6	3 / 3	0.6467
Inorganic	Molybdenum	mg/kg		0.59	0.59	0.85	3 / 3	0.6933
Inorganic	Nickel	mg/kg		0.053	0.053	0.1	3 / 3	0.08033
Inorganic	Potassium	mg/kg		11100	11100	13700	3 / 3	12000
Inorganic	Selenium	mg/kg		6.6	6.6	11.4	3 / 3	8.333
Inorganic	Silver	mg/kg		0.0063	0.0063	0.02	3 / 3	0.01277
Inorganic	Sodium	mg/kg		4240	4240	5070	3 / 3	4620
Inorganic	Strontium	mg/kg		0.23	0.23	0.32	3 / 3	0.28
Inorganic	Thallium	mg/kg		0.23	0.23	0.29	3 / 3	0.2533
Inorganic	Vanadium	mg/kg		0.18	0.18	1.2	3 / 3	0.5933
Inorganic	Zinc	mg/kg		84.1	84.1	113	3 / 3	95.37
Physical Properties	% Lipids	%		13.8	13.8	33.2	3 / 3	22.33

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-15: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Largemouth Bass Ovary at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.3	3.3	4.9	3 / 3	3.867
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1	1	1.4	3 / 3	1.2
Inorganic	Barium	mg/kg		0.035	0.035	0.08	3 / 3	0.06
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.06 / 0.064	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.012	0.012	0.05	3 / 3	0.02633
Inorganic	Calcium	mg/kg		337	337	556	3 / 3	477.7
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.36	0.36	1 / 3	0.36
Inorganic	Cobalt	mg/kg		0.14	0.14	0.26	3 / 3	0.1933
Inorganic	Copper	mg/kg		4.9	4.9	21.5	3 / 3	10.67
Inorganic	Iron	mg/kg		120	120	139	3 / 3	128
Inorganic	Lead	mg/kg		0.023	0.023	0.36	3 / 3	0.1367
Inorganic	Magnesium	mg/kg		752	752	896	3 / 3	805.7
Inorganic	Manganese	mg/kg		7.9	7.9	23.7	3 / 3	13.93
Inorganic	Mercury	mg/kg		0.034	0.034	0.34	3 / 3	0.1387
Inorganic	Molybdenum	mg/kg		0.19	0.19	0.23	3 / 3	0.2067
Inorganic	Nickel	mg/kg		0.037	0.037	0.15	3 / 3	0.1123
Inorganic	Potassium	mg/kg		15500	15500	17700	3 / 3	16367
Inorganic	Selenium	mg/kg		4	4	5.9	3 / 3	4.833
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		3120	3120	4690	3 / 3	3647
Inorganic	Strontium	mg/kg		0.3	0.3	0.51	3 / 3	0.41
Inorganic	Thallium	mg/kg		0.12	0.12	0.15	3 / 3	0.1367
Inorganic	Vanadium	mg/kg	0.051 / 0.055	ND	0.056	0.13	2 / 3	0.093
Inorganic	Zinc	mg/kg		126	126	216	3 / 3	171
Physical Properties	% Lipids	%		25.7	25.7	30.5	3 / 3	27.57

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-16: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Long Ear Sunfish Whole Body at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		21.9	21.9	21.9	1 / 1	21.9
Inorganic	Antimony	mg/kg	0.038 / 0.038	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.97	0.97	0.97	1 / 1	0.97
Inorganic	Barium	mg/kg		7.1	7.1	7.1	1 / 1	7.1
Inorganic	Beryllium	mg/kg	0.016 / 0.016	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg		0.33	0.33	0.33	1 / 1	0.33
Inorganic	Cadmium	mg/kg		0.12	0.12	0.12	1 / 1	0.12
Inorganic	Calcium	mg/kg		86000	86000	86000	1 / 1	86000
Inorganic	Chromium	mg/kg	0.62 / 0.62	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg		0.061	0.061	0.061	1 / 1	0.061
Inorganic	Copper	mg/kg		1.4	1.4	1.4	1 / 1	1.4
Inorganic	Iron	mg/kg		63.4	63.4	63.4	1 / 1	63.4
Inorganic	Lead	mg/kg		0.43	0.43	0.43	1 / 1	0.43
Inorganic	Magnesium	mg/kg		2070	2070	2070	1 / 1	2070
Inorganic	Manganese	mg/kg		24.5	24.5	24.5	1 / 1	24.5
Inorganic	Mercury	mg/kg		0.075	0.075	0.075	1 / 1	0.075
Inorganic	Molybdenum	mg/kg		0.16	0.16	0.16	1 / 1	0.16
Inorganic	Nickel	mg/kg		0.34	0.34	0.34	1 / 1	0.34
Inorganic	Potassium	mg/kg		9900	9900	9900	1 / 1	9900
Inorganic	Selenium	mg/kg		1.5	1.5	1.5	1 / 1	1.5
Inorganic	Silver	mg/kg		0.025	0.025	0.025	1 / 1	0.025
Inorganic	Sodium	mg/kg		5810	5810	5810	1 / 1	5810
Inorganic	Strontium	mg/kg		67.2	67.2	67.2	1 / 1	67.2
Inorganic	Thallium	mg/kg	0.029 / 0.029	ND	ND	ND	0 / 1	0
Inorganic	Vanadium	mg/kg		1.7	1.7	1.7	1 / 1	1.7
Inorganic	Zinc	mg/kg		106	106	106	1 / 1	106
Physical Properties	% Lipids	%		4	4	4	1 / 1	4

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-17: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Long Ear Sunfish Whole Body at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	17.2 / 17.2	ND	ND	ND	0 / 1	0
Inorganic	Antimony	mg/kg	0.038 / 0.038	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		0.55	0.55	0.55	1 / 1	0.55
Inorganic	Barium	mg/kg		6.5	6.5	6.5	1 / 1	6.5
Inorganic	Beryllium	mg/kg		0.015	0.015	0.015	1 / 1	0.015
Inorganic	Boron	mg/kg		0.15	0.15	0.15	1 / 1	0.15
Inorganic	Cadmium	mg/kg	0.029 / 0.029	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		74700	74700	74700	1 / 1	74700
Inorganic	Chromium	mg/kg	0.61 / 0.61	ND	ND	ND	0 / 1	0
Inorganic	Cobalt	mg/kg		0.066	0.066	0.066	1 / 1	0.066
Inorganic	Copper	mg/kg		2.1	2.1	2.1	1 / 1	2.1
Inorganic	Iron	mg/kg	61.3 / 61.3	ND	ND	ND	0 / 1	0
Inorganic	Lead	mg/kg		0.43	0.43	0.43	1 / 1	0.43
Inorganic	Magnesium	mg/kg		2220	2220	2220	1 / 1	2220
Inorganic	Manganese	mg/kg		50.9	50.9	50.9	1 / 1	50.9
Inorganic	Mercury	mg/kg		0.1	0.1	0.1	1 / 1	0.1
Inorganic	Molybdenum	mg/kg		0.16	0.16	0.16	1 / 1	0.16
Inorganic	Nickel	mg/kg		0.21	0.21	0.21	1 / 1	0.21
Inorganic	Potassium	mg/kg		10900	10900	10900	1 / 1	10900
Inorganic	Selenium	mg/kg		2.3	2.3	2.3	1 / 1	2.3
Inorganic	Silver	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		5250	5250	5250	1 / 1	5250
Inorganic	Strontium	mg/kg		66.2	66.2	66.2	1 / 1	66.2
Inorganic	Thallium	mg/kg		0.055	0.055	0.055	1 / 1	0.055
Inorganic	Vanadium	mg/kg		1.1	1.1	1.1	1 / 1	1.1
Inorganic	Zinc	mg/kg		132	132	132	1 / 1	132
Physical Properties	% Lipids	%		9	9	9	1 / 1	9

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-18: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Red Ear Sunfish Fillet at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.76 / 0.87	ND	0.88	22.8	10 / 11	4.368
Inorganic	Antimony	mg/kg	0.016 / 0.019	ND	ND	ND	0 / 11	0
Inorganic	Arsenic	mg/kg		0.82	0.82	1.7	11 / 11	1.238
Inorganic	Barium	mg/kg	0.019 / 0.098	ND	0.077	0.68	10 / 11	0.2375
Inorganic	Beryllium	mg/kg	0.0028 / 0.0033	ND	ND	ND	0 / 11	0
Inorganic	Boron	mg/kg	0.055 / 0.064	ND	ND	ND	0 / 11	0
Inorganic	Cadmium	mg/kg	0.0051 / 0.006	ND	ND	ND	0 / 11	0
Inorganic	Calcium	mg/kg		798	798	5550	11 / 11	2442
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.21	0.21	1 / 11	0.21
Inorganic	Cobalt	mg/kg		0.0096	0.0096	0.033	11 / 11	0.01824
Inorganic	Copper	mg/kg		0.57	0.57	1.4	11 / 11	0.7182
Inorganic	Iron	mg/kg	10.7 / 12.5	ND	11.4	49	8 / 11	24.94
Inorganic	Lead	mg/kg	0.0091 / 0.0097	ND	0.011	0.1	10 / 11	0.0377
Inorganic	Magnesium	mg/kg		1360	1360	1440	11 / 11	1395
Inorganic	Manganese	mg/kg		0.43	0.43	1.6	11 / 11	0.8718
Inorganic	Mercury	mg/kg		0.064	0.064	0.33	11 / 11	0.1186
Inorganic	Molybdenum	mg/kg	0.0093 / 0.0093	ND	0.024	0.059	10 / 11	0.0382
Inorganic	Nickel	mg/kg	0.029 / 0.032	ND	0.034	0.068	10 / 11	0.0495
Inorganic	Potassium	mg/kg		17600	17600	21400	11 / 11	19836
Inorganic	Selenium	mg/kg		2	2	3.3	11 / 11	2.591
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 11	0
Inorganic	Sodium	mg/kg		1420	1420	2890	11 / 11	1933
Inorganic	Strontium	mg/kg		0.46	0.46	3.9	11 / 11	1.711
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	0.015	0.052	8 / 11	0.0245
Inorganic	Vanadium	mg/kg	0.047 / 0.055	ND	0.06	0.093	3 / 11	0.07633
Inorganic	Zinc	mg/kg		26.4	26.4	47.5	11 / 11	35.39
Physical Properties	% Lipids	%		3.2	3.2	10.4	11 / 11	5

Notes:

Grab sample results are from freeze dried samples.

Table I-19: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Red Ear Sunfish Fillet at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.79 / 0.88	ND	0.95	2.9	6 / 8	1.642
Inorganic	Antimony	mg/kg	0.017 / 0.019	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg		1.2	1.2	2.8	8 / 8	1.775
Inorganic	Barium	mg/kg		0.062	0.062	0.59	8 / 8	0.2478
Inorganic	Beryllium	mg/kg	0.003 / 0.0033	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.058 / 0.063	ND	0.13	0.13	1 / 8	0.13
Inorganic	Cadmium	mg/kg	0.0054 / 0.0059	ND	0.017	0.017	1 / 8	0.017
Inorganic	Calcium	mg/kg		1010	1010	5160	8 / 8	2520
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	0.16	0.29	2 / 8	0.225
Inorganic	Cobalt	mg/kg		0.012	0.012	0.048	8 / 8	0.02275
Inorganic	Copper	mg/kg		0.59	0.59	0.75	8 / 8	0.6575
Inorganic	Iron	mg/kg	11.2 / 12.2	ND	12.6	21.6	7 / 8	17.14
Inorganic	Lead	mg/kg	0.009 / 0.01	ND	0.0099	0.33	5 / 8	0.08098
Inorganic	Magnesium	mg/kg		1250	1250	1500	8 / 8	1388
Inorganic	Manganese	mg/kg		0.4	0.4	1.1	8 / 8	0.6988
Inorganic	Mercury	mg/kg		0.19	0.19	0.98	8 / 8	0.3688
Inorganic	Molybdenum	mg/kg		0.041	0.041	0.13	8 / 8	0.0675
Inorganic	Nickel	mg/kg	0.03 / 0.033	ND	0.043	0.32	6 / 8	0.114
Inorganic	Potassium	mg/kg		17500	17500	21600	8 / 8	19788
Inorganic	Selenium	mg/kg		3.5	3.5	5.1	8 / 8	4.313
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		2680	2680	3900	8 / 8	3171
Inorganic	Strontium	mg/kg		0.54	0.54	4	8 / 8	1.703
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	0.018	0.042	6 / 8	0.0275
Inorganic	Vanadium	mg/kg	0.049 / 0.054	ND	0.058	0.13	4 / 8	0.09125
Inorganic	Zinc	mg/kg		30.2	30.2	46.6	8 / 8	38.3
Physical Properties	% Lipids	%		2.1	2.1	3.9	8 / 8	3.05

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

For definitions, see the Acronyms section.

Table I-20: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - Red Ear Sunfish Fillet at Clinch River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3.1	3.1	3.6	2 / 2	3.35
Inorganic	Antimony	mg/kg	0.018 / 0.019	ND	ND	ND	0 / 2	0
Inorganic	Arsenic	mg/kg		1.4	1.4	1.9	2 / 2	1.65
Inorganic	Barium	mg/kg		0.28	0.28	0.34	2 / 2	0.31
Inorganic	Beryllium	mg/kg	0.0032 / 0.0032	ND	ND	ND	0 / 2	0
Inorganic	Boron	mg/kg	0.062 / 0.063	ND	ND	ND	0 / 2	0
Inorganic	Cadmium	mg/kg	0.0057 / 0.0058	ND	ND	ND	0 / 2	0
Inorganic	Calcium	mg/kg		2960	2960	5690	2 / 2	4325
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	0.44	0.44	1 / 2	0.44
Inorganic	Cobalt	mg/kg		0.012	0.012	0.037	2 / 2	0.0245
Inorganic	Copper	mg/kg		0.7	0.7	0.77	2 / 2	0.735
Inorganic	Iron	mg/kg	12 / 12	ND	40.8	40.8	1 / 2	40.8
Inorganic	Lead	mg/kg		0.016	0.016	0.22	2 / 2	0.118
Inorganic	Magnesium	mg/kg		1380	1380	1400	2 / 2	1390
Inorganic	Manganese	mg/kg		1.1	1.1	1.5	2 / 2	1.3
Inorganic	Mercury	mg/kg		0.18	0.18	0.46	2 / 2	0.32
Inorganic	Molybdenum	mg/kg		0.083	0.083	0.12	2 / 2	0.1015
Inorganic	Nickel	mg/kg		0.047	0.047	0.079	2 / 2	0.063
Inorganic	Potassium	mg/kg		19200	19200	19300	2 / 2	19250
Inorganic	Selenium	mg/kg		4.3	4.3	4.9	2 / 2	4.6
Inorganic	Silver	mg/kg	0.0029 / 0.0029	ND	ND	ND	0 / 2	0
Inorganic	Sodium	mg/kg		2940	2940	4380	2 / 2	3660
Inorganic	Strontium	mg/kg		2.3	2.3	4.3	2 / 2	3.3
Inorganic	Thallium	mg/kg		0.028	0.028	0.034	2 / 2	0.031
Inorganic	Vanadium	mg/kg	0.053 / 0.053	ND	0.25	0.25	1 / 2	0.25
Inorganic	Zinc	mg/kg		41.3	41.3	82.3	2 / 2	61.8
Physical Properties	% Lipids	%		3.9	3.9	4	2 / 2	3.95

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-21: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - White Crappie Fillet at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	0.87 / 0.88	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.019 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1.1	1.1	1.5	3 / 3	1.3
Inorganic	Barium	mg/kg	0.02 / 0.073	ND	0.037	0.14	2 / 3	0.0885
Inorganic	Beryllium	mg/kg	0.0032 / 0.0033	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.063 / 0.064	ND	0.1	0.1	1 / 3	0.1
Inorganic	Cadmium	mg/kg	0.0059 / 0.006	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		882	882	3980	3 / 3	2104
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.0089	0.0089	0.013	3 / 3	0.0105
Inorganic	Copper	mg/kg		0.67	0.67	1.3	3 / 3	0.9467
Inorganic	Iron	mg/kg	12.3 / 12.5	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.01 / 0.011	ND	0.04	0.04	1 / 3	0.04
Inorganic	Magnesium	mg/kg		1450	1450	1500	3 / 3	1470
Inorganic	Manganese	mg/kg		0.53	0.53	0.9	3 / 3	0.67
Inorganic	Mercury	mg/kg		0.071	0.071	0.14	3 / 3	0.1007
Inorganic	Molybdenum	mg/kg	0.011 / 0.011	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.039	0.039	0.062	3 / 3	0.05367
Inorganic	Potassium	mg/kg		20600	20600	21200	3 / 3	20967
Inorganic	Selenium	mg/kg		1.6	1.6	1.9	3 / 3	1.733
Inorganic	Silver	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1090	1090	1350	3 / 3	1217
Inorganic	Strontium	mg/kg		0.47	0.47	3	3 / 3	1.483
Inorganic	Thallium	mg/kg		0.017	0.017	0.095	3 / 3	0.05067
Inorganic	Vanadium	mg/kg	0.054 / 0.055	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		20.2	20.2	22.1	3 / 3	21.23
Physical Properties	% Lipids	%		3.2	3.2	4.9	3 / 3	3.9

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

Table I-22: Tennessee Aquarium / Appalachian State University (Splits), Jan 2010 - White Crappie Ovary at Tennessee River Mile 567.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1.8	1.8	1.8	1 / 1	1.8
Inorganic	Antimony	mg/kg	0.018 / 0.018	ND	ND	ND	0 / 1	0
Inorganic	Arsenic	mg/kg		1.8	1.8	1.8	1 / 1	1.8
Inorganic	Barium	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Inorganic	Beryllium	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 1	0
Inorganic	Boron	mg/kg	0.059 / 0.059	ND	ND	ND	0 / 1	0
Inorganic	Cadmium	mg/kg	0.0054 / 0.0054	ND	ND	ND	0 / 1	0
Inorganic	Calcium	mg/kg		251	251	251	1 / 1	251
Inorganic	Chromium	mg/kg		0.12	0.12	0.12	1 / 1	0.12
Inorganic	Cobalt	mg/kg		0.1	0.1	0.1	1 / 1	0.1
Inorganic	Copper	mg/kg		3.4	3.4	3.4	1 / 1	3.4
Inorganic	Iron	mg/kg		43.3	43.3	43.3	1 / 1	43.3
Inorganic	Lead	mg/kg		0.018	0.018	0.018	1 / 1	0.018
Inorganic	Magnesium	mg/kg		870	870	870	1 / 1	870
Inorganic	Manganese	mg/kg		2.7	2.7	2.7	1 / 1	2.7
Inorganic	Mercury	mg/kg		0.011	0.011	0.011	1 / 1	0.011
Inorganic	Molybdenum	mg/kg		0.077	0.077	0.077	1 / 1	0.077
Inorganic	Nickel	mg/kg		0.054	0.054	0.054	1 / 1	0.054
Inorganic	Potassium	mg/kg		12100	12100	12100	1 / 1	12100
Inorganic	Selenium	mg/kg		5.4	5.4	5.4	1 / 1	5.4
Inorganic	Silver	mg/kg	0.0027 / 0.0027	ND	ND	ND	0 / 1	0
Inorganic	Sodium	mg/kg		1930	1930	1930	1 / 1	1930
Inorganic	Strontium	mg/kg		0.21	0.21	0.21	1 / 1	0.21
Inorganic	Thallium	mg/kg		0.092	0.092	0.092	1 / 1	0.092
Inorganic	Vanadium	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Inorganic	Zinc	mg/kg		168	168	168	1 / 1	168
Physical Properties	% Lipids	%		34.5	34.5	34.5	1 / 1	34.5

Notes:

Grab sample results are from freeze dried samples.

For definitions, see the Acronyms section.

APPENDIX J

TVA SAP Sampling, Spring 2010

Table J- 1: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		21.7	21.7	107	3 / 3	61.27
Inorganic	Antimony	mg/kg	0.07 / 0.074	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.14 / 0.14	ND	0.15	0.15	1 / 3	0.15
Inorganic	Barium	mg/kg		4.6	4.6	5.2	3 / 3	4.867
Inorganic	Beryllium	mg/kg	0.14 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2.1	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.037 / 0.039	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		41900	41900	61000	3 / 3	53333
Inorganic	Chromium	mg/kg		0.99	0.99	2	3 / 3	1.497
Inorganic	Cobalt	mg/kg	0.068 / 0.071	ND	0.1	0.13	2 / 3	0.115
Inorganic	Copper	mg/kg	0.7 / 0.72	ND	0.74	0.74	1 / 3	0.74
Inorganic	Iron	mg/kg	58.2 / 60.4	ND	80.7	147	2 / 3	113.9
Inorganic	Lead	mg/kg		0.16	0.16	0.22	3 / 3	0.1867
Inorganic	Magnesium	mg/kg		972	972	1300	3 / 3	1154
Inorganic	Manganese	mg/kg		66	66	153	3 / 3	99.27
Inorganic	Mercury	mg/kg		0.016	0.016	0.032	3 / 3	0.02333
Inorganic	Molybdenum	mg/kg	0.17 / 0.2	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.47 / 0.5	ND	0.49	0.49	1 / 3	0.49
Inorganic	Potassium	mg/kg	3490 / 3690	ND	ND	ND	0 / 3	0
Inorganic	Selenium	mg/kg		0.52	0.52	0.64	3 / 3	0.57
Inorganic	Silver	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1790	1790	2150	3 / 3	1990
Inorganic	Strontium	mg/kg		37.3	37.3	52.3	3 / 3	46.03
Inorganic	Thallium	mg/kg	0.013 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.25	0.25	0.55	3 / 3	0.4167
Inorganic	Zinc	mg/kg		54.2	54.2	61.6	3 / 3	58.73

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 2: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	4.1	4.1	1 / 6	4.1
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.028	ND	0.029	0.067	5 / 6	0.0434
Inorganic	Barium	mg/kg	0.041 / 0.22	ND	0.067	0.12	2 / 6	0.0935
Inorganic	Beryllium	mg/kg	0.027 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		244	244	1510	6 / 6	834
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.15	0.15	1 / 6	0.15
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.18	0.18	0.31	6 / 6	0.235
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		266	266	302	6 / 6	282.5
Inorganic	Manganese	mg/kg		0.3	0.3	2.6	6 / 6	1.237
Inorganic	Mercury	mg/kg		0.034	0.034	0.065	6 / 6	0.04883
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3170	3170	3910	6 / 6	3398
Inorganic	Selenium	mg/kg		0.44	0.44	0.6	6 / 6	0.4983
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		264	264	361	6 / 6	302.2
Inorganic	Strontium	mg/kg		0.17	0.17	1.2	6 / 6	0.6417
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		10.3	10.3	18.4	6 / 6	13.13
Physical Properties	% Lipids	%		0.26	0.26	2.4	6 / 6	1.063
Physical Properties	% Moisture	%		80.5	80.5	81.2	3 / 3	80.83

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 3: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4.1 / 19.9	ND	15.7	17	2 / 4	16.35
Inorganic	Antimony	mg/kg	0.014 / 0.047	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.1	0.1	0.16	4 / 4	0.135
Inorganic	Barium	mg/kg		2.6	2.6	11.8	4 / 4	6.8
Inorganic	Beryllium	mg/kg	0.029 / 0.096	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.41 / 1.3	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.0076 / 0.025	ND	0.012	0.029	3 / 4	0.018
Inorganic	Calcium	mg/kg		35100	35100	72700	4 / 4	57300
Inorganic	Chromium	mg/kg	0.13 / 0.63	ND	0.69	1.1	3 / 4	0.93
Inorganic	Cobalt	mg/kg	0.014 / 0.07	ND	0.033	0.054	3 / 4	0.04033
Inorganic	Copper	mg/kg	0.15 / 0.72	ND	0.36	0.47	3 / 4	0.3967
Inorganic	Iron	mg/kg	12.4 / 60	ND	26	28	2 / 4	27
Inorganic	Lead	mg/kg		0.11	0.11	0.25	4 / 4	0.18
Inorganic	Magnesium	mg/kg		767	767	1380	4 / 4	1038
Inorganic	Manganese	mg/kg		21.6	21.6	96.4	4 / 4	54
Inorganic	Mercury	mg/kg		0.027	0.027	0.045	4 / 4	0.03625
Inorganic	Molybdenum	mg/kg		0.13	0.13	0.2	4 / 4	0.15
Inorganic	Nickel	mg/kg	0.1 / 0.49	ND	0.16	0.17	2 / 4	0.165
Inorganic	Potassium	mg/kg	743 / 3600	ND	2700	3350	3 / 4	2973
Inorganic	Selenium	mg/kg		0.52	0.52	0.82	4 / 4	0.625
Inorganic	Silver	mg/kg	0.0029 / 0.0094	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1710	1710	2200	4 / 4	1960
Inorganic	Strontium	mg/kg		38.4	38.4	72.6	4 / 4	54.63
Inorganic	Thallium	mg/kg	0.014 / 0.045	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.047 / 0.23	ND	0.18	0.24	3 / 4	0.2067
Inorganic	Zinc	mg/kg		42.9	42.9	77.2	4 / 4	59.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 4: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 57.6	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.21	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.4	ND	0.041	0.052	2 / 6	0.0465
Inorganic	Barium	mg/kg	0.052 / 0.66	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 6	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.11	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg	43.7 / 694	ND	444	783	3 / 6	635.3
Inorganic	Chromium	mg/kg	0.12 / 1.8	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.2	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.13 / 2.1	ND	0.28	0.46	3 / 6	0.3867
Inorganic	Iron	mg/kg	10.9 / 174	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.24	ND	0.51	0.51	1 / 6	0.51
Inorganic	Magnesium	mg/kg	43.7 / 694	ND	260	321	4 / 6	279.8
Inorganic	Manganese	mg/kg	0.15 / 2.5	ND	0.37	0.99	3 / 6	0.6833
Inorganic	Mercury	mg/kg	0.01 / 0.17	ND	0.043	0.089	4 / 6	0.06725
Inorganic	Molybdenum	mg/kg	0.032 / 0.51	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 1.4	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg	656 / 10400	ND	3550	3690	4 / 6	3603
Inorganic	Selenium	mg/kg	0.061 / 0.98	ND	0.39	1	4 / 6	0.65
Inorganic	Silver	mg/kg	0.0026 / 0.042	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg	43.7 / 694	ND	269	378	4 / 6	298
Inorganic	Strontium	mg/kg	0.04 / 0.63	ND	0.33	0.7	3 / 6	0.5
Inorganic	Thallium	mg/kg	0.012 / 0.2	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.66	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg	2 / 31.3	ND	10.3	13.9	4 / 6	11.75
Physical Properties	% Lipids	%		0.5	0.5	1.4	6 / 6	0.7867
Physical Properties	% Moisture	%		79.1	79.1	83.5	4 / 4	80.68

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 5: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		13.77	13.77	45.77	3 / 3	30.8
Inorganic	Antimony	mg/kg	0.01426 / 0.01468	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.1002	0.1002	0.114	3 / 3	0.109
Inorganic	Barium	mg/kg		1.887	1.887	2.116	3 / 3	2.026
Inorganic	Beryllium	mg/kg	0.02964 / 0.03029	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4104 / 0.4194	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.00798	0.00798	0.00909	3 / 3	0.008449
Inorganic	Calcium	mg/kg		14615	14615	15479	3 / 3	14963
Inorganic	Chromium	mg/kg	0.1242 / 0.1254	ND	0.1328	0.851	2 / 3	0.4919
Inorganic	Cobalt	mg/kg		0.03648	0.03648	0.05126	3 / 3	0.04381
Inorganic	Copper	mg/kg		0.342	0.342	0.391	3 / 3	0.3608
Inorganic	Iron	mg/kg		28.27	28.27	69.69	3 / 3	49.66
Inorganic	Lead	mg/kg		0.0456	0.0456	0.0759	3 / 3	0.05836
Inorganic	Magnesium	mg/kg		410.4	410.4	441.6	3 / 3	430.8
Inorganic	Manganese	mg/kg		28.73	28.73	33.12	3 / 3	30.95
Inorganic	Mercury	mg/kg		0.03192	0.03192	0.03495	3 / 3	0.03302
Inorganic	Molybdenum	mg/kg	0.0342 / 0.03495	ND	0.0414	0.0414	1 / 3	0.0414
Inorganic	Nickel	mg/kg	0.09576 / 0.1002	ND	0.1127	0.1127	1 / 3	0.1127
Inorganic	Potassium	mg/kg		2599	2599	2645	3 / 3	2626
Inorganic	Selenium	mg/kg		0.3648	0.3648	0.3728	3 / 3	0.3685
Inorganic	Silver	mg/kg	0.00276 / 0.00303	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		772.8	772.8	820.8	3 / 3	802.3
Inorganic	Strontium	mg/kg		12.98	12.98	13.77	3 / 3	13.37
Inorganic	Thallium	mg/kg	0.01357 / 0.01398	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.04788	0.04788	0.0828	3 / 3	0.06997
Inorganic	Zinc	mg/kg		32.2	32.2	34.95	3 / 3	33.4
Physical Properties	% Lipids	%		2.8	2.8	2.9	3 / 3	2.833
Physical Properties	% Moisture	%		76.7	76.7	77.2	3 / 3	76.97

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 6: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		50.75	50.75	287	6 / 6	124.4
Inorganic	Antimony	mg/kg	0.01394 / 0.01472	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1653	0.1653	0.608	6 / 6	0.2934
Inorganic	Barium	mg/kg		3.857	3.857	6.795	6 / 6	5.003
Inorganic	Beryllium	mg/kg	0.0608 / 0.29	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.832 / 4.176	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.01131	0.01131	0.03509	6 / 6	0.02028
Inorganic	Calcium	mg/kg		25344	25344	49300	6 / 6	35569
Inorganic	Chromium	mg/kg	0.256 / 1.276	ND	0.7337	4.789	5 / 6	2.588
Inorganic	Cobalt	mg/kg	0.02848 / 0.1421	ND	0.0861	0.384	5 / 6	0.1812
Inorganic	Copper	mg/kg	0.2912 / 1.45	ND	0.7337	0.768	2 / 6	0.7509
Inorganic	Iron	mg/kg	24.35 / 121.2	ND	81.18	944	5 / 6	298.2
Inorganic	Lead	mg/kg		0.1148	0.1148	0.4147	6 / 6	0.2478
Inorganic	Magnesium	mg/kg		579.2	579.2	890.3	6 / 6	737
Inorganic	Manganese	mg/kg		35.1	35.1	77.2	6 / 6	60.07
Inorganic	Mercury	mg/kg		0.01827	0.01827	0.02526	6 / 6	0.02167
Inorganic	Molybdenum	mg/kg		0.0615	0.0615	0.1856	6 / 6	0.1187
Inorganic	Nickel	mg/kg	0.1984 / 0.986	ND	0.6232	0.768	2 / 6	0.6956
Inorganic	Potassium	mg/kg	1459 / 7279	ND	1670	1670	1 / 6	1670
Inorganic	Selenium	mg/kg		0.533	0.533	0.7175	6 / 6	0.6157
Inorganic	Silver	mg/kg	0.00279 / 0.00291	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1341	1341	1720	6 / 6	1503
Inorganic	Strontium	mg/kg		28.58	28.58	47.56	6 / 6	38.64
Inorganic	Thallium	mg/kg	0.01353 / 0.0201	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0928 / 0.464	ND	0.5104	0.992	2 / 6	0.7512
Inorganic	Zinc	mg/kg		33.6	33.6	52.52	6 / 6	44.56

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 7: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.786 / 4.08	ND	4.503	7.268	4 / 6	6.211
Inorganic	Antimony	mg/kg	0.01373 / 0.01482	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.05887	0.05887	0.1109	6 / 6	0.08403
Inorganic	Barium	mg/kg		0.0515	0.0515	0.2704	6 / 6	0.1606
Inorganic	Beryllium	mg/kg	0.02704 / 0.03045	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3952 / 0.4263	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00728 / 0.00771	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		139.3	139.3	1005	6 / 6	605.2
Inorganic	Chromium	mg/kg	0.1206 / 0.1299	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01331 / 0.0138	ND	0.01542	0.02704	5 / 6	0.02014
Inorganic	Copper	mg/kg		0.247	0.247	0.3825	6 / 6	0.3195
Inorganic	Iron	mg/kg	11.4 / 12.28	ND	12.56	12.56	1 / 6	12.56
Inorganic	Lead	mg/kg	0.07308 / 0.3536	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		251.3	251.3	301.5	6 / 6	271.1
Inorganic	Manganese	mg/kg		0.5768	0.5768	2.233	6 / 6	1.804
Inorganic	Mercury	mg/kg		0.02632	0.02632	0.0513	6 / 6	0.03463
Inorganic	Molybdenum	mg/kg	0.03328 / 0.03654	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09152 / 0.09947	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2558	2558	3370	6 / 6	2828
Inorganic	Selenium	mg/kg		0.4512	0.4512	0.684	6 / 6	0.5791
Inorganic	Silver	mg/kg	0.0027 / 0.00305	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		379.8	379.8	521.2	6 / 6	447.2
Inorganic	Strontium	mg/kg		0.1401	0.1401	1.31	6 / 6	0.6961
Inorganic	Thallium	mg/kg	0.0131 / 0.01401	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04368 / 0.04669	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		10.09	10.09	18.36	6 / 6	14.01
Physical Properties	% Lipids	%		0.69	0.69	1.6	6 / 6	1.07
Physical Properties	% Moisture	%		77.5	77.5	81.2	6 / 6	79.67

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 8: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		25.07	25.07	42.94	3 / 3	34.71
Inorganic	Antimony	mg/kg	0.01401 / 0.01495	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.1469	0.1469	0.1656	3 / 3	0.1532
Inorganic	Barium	mg/kg		2.305	2.305	2.691	3 / 3	2.463
Inorganic	Beryllium	mg/kg	0.02938 / 0.0299	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4068 / 0.437	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01242	0.01242	0.01288	3 / 3	0.01265
Inorganic	Calcium	mg/kg		13515	13515	15985	3 / 3	15008
Inorganic	Chromium	mg/kg	0.1243 / 0.1311	ND	0.1311	0.1794	2 / 3	0.1553
Inorganic	Cobalt	mg/kg		0.0529	0.0529	0.0565	3 / 3	0.05487
Inorganic	Copper	mg/kg		0.391	0.391	0.506	3 / 3	0.4497
Inorganic	Iron	mg/kg		37.49	37.49	53.11	3 / 3	45.69
Inorganic	Lead	mg/kg		0.0414	0.0414	0.2102	3 / 3	0.1007
Inorganic	Magnesium	mg/kg		438.4	438.4	453.1	3 / 3	447.4
Inorganic	Manganese	mg/kg		26.22	26.22	38.87	3 / 3	33.2
Inorganic	Mercury	mg/kg		0.02938	0.02938	0.0299	3 / 3	0.02973
Inorganic	Molybdenum	mg/kg	0.0339 / 0.0368	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.09492 / 0.1012	ND	0.1085	0.1085	1 / 3	0.1085
Inorganic	Potassium	mg/kg		2531	2531	2691	3 / 3	2615
Inorganic	Selenium	mg/kg		0.414	0.414	0.437	3 / 3	0.4268
Inorganic	Silver	mg/kg	0.00271 / 0.00299	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		802.3	802.3	874	3 / 3	843.2
Inorganic	Strontium	mg/kg		14.4	14.4	16.08	3 / 3	15.41
Inorganic	Thallium	mg/kg	0.01333 / 0.01587	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.0828	0.0828	0.104	3 / 3	0.09217
Inorganic	Zinc	mg/kg		30.82	30.82	35.88	3 / 3	34.06
Physical Properties	% Lipids	%		2.6	2.6	3.2	3 / 3	2.833
Physical Properties	% Moisture	%		77	77	77.4	3 / 3	77.13

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J- 9: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	7.38 / 20.44	ND	13.46	13.46	1 / 4	13.46
Inorganic	Antimony	mg/kg	0.01336 / 0.01508	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg	0.05256 / 0.1435	ND	0.0718	0.173	3 / 4	0.1271
Inorganic	Barium	mg/kg		2.54	2.54	4.569	4 / 4	3.89
Inorganic	Beryllium	mg/kg	0.05475 / 0.1498	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.7665 / 2.122	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg	0.01905 / 0.03744	ND	ND	ND	0 / 4	0
Inorganic	Calcium	mg/kg		26718	26718	52104	4 / 4	42536
Inorganic	Chromium	mg/kg	0.2409 / 0.6552	ND	0.6351	0.9548	3 / 4	0.8411
Inorganic	Cobalt	mg/kg	0.02628 / 0.07176	ND	0.03285	0.04667	3 / 4	0.04128
Inorganic	Copper	mg/kg	0.2628 / 0.7488	ND	0.341	0.5475	3 / 4	0.4146
Inorganic	Iron	mg/kg	22.12 / 61.46	ND	25.52	25.52	1 / 4	25.52
Inorganic	Lead	mg/kg		0.09636	0.09636	0.2402	4 / 4	0.1653
Inorganic	Magnesium	mg/kg		619.8	619.8	1023	4 / 4	832.5
Inorganic	Manganese	mg/kg		9.811	9.811	32.45	4 / 4	19.44
Inorganic	Mercury	mg/kg		0.03274	0.03274	0.04161	4 / 4	0.03578
Inorganic	Molybdenum	mg/kg	0.0657 / 0.181	ND	0.08322	0.1221	3 / 4	0.1003
Inorganic	Nickel	mg/kg	0.1796 / 0.4992	ND	0.3308	0.3308	1 / 4	0.3308
Inorganic	Potassium	mg/kg		2181	2181	2804	4 / 4	2550
Inorganic	Selenium	mg/kg		0.7502	0.7502	1.183	4 / 4	0.9249
Inorganic	Silver	mg/kg	0.00526 / 0.01466	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1380	1380	1831	4 / 4	1662
Inorganic	Strontium	mg/kg		28.03	28.03	56.78	4 / 4	43.44
Inorganic	Thallium	mg/kg	0.01364 / 0.03267	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg	0.08322 / 0.234	ND	0.1296	0.2836	3 / 4	0.191
Inorganic	Zinc	mg/kg		43.99	43.99	54.57	4 / 4	49.72

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-10: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.148	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.055	0.055	0.09	6 / 6	0.07234
Inorganic	Barium	mg/kg		0.05208	0.05208	0.3621	6 / 6	0.127
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		386.9	386.9	5432	6 / 6	1687
Inorganic	Chromium	mg/kg	0.12 / 0.1321	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.01451	ND	0.01363	0.021	4 / 6	0.01591
Inorganic	Copper	mg/kg		0.1786	0.1786	0.531	6 / 6	0.3361
Inorganic	Iron	mg/kg	11.1 / 12.48	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.026 / 0.02976	ND	0.02982	0.08673	2 / 6	0.05828
Inorganic	Magnesium	mg/kg		238	238	394.1	6 / 6	294.3
Inorganic	Manganese	mg/kg		0.2604	0.2604	2.173	6 / 6	0.7325
Inorganic	Mercury	mg/kg		0.047	0.047	0.076	6 / 6	0.05739
Inorganic	Molybdenum	mg/kg	0.033 / 0.0372	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.1004	ND	0.23	0.23	1 / 6	0.23
Inorganic	Potassium	mg/kg		3120	3120	3877	6 / 6	3415
Inorganic	Selenium	mg/kg		0.62	0.62	1.129	6 / 6	0.8488
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		303.2	303.2	380.6	6 / 6	343.1
Inorganic	Strontium	mg/kg		0.3906	0.3906	5.602	6 / 6	1.71
Inorganic	Thallium	mg/kg	0.013 / 0.02418	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		9.3	9.3	14.97	6 / 6	11.6
Physical Properties	% Lipids	%		0.33	0.33	1.5	6 / 6	0.8583
Physical Properties	% Moisture	%		78.7	78.7	82.3	6 / 6	80.9

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-11: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		39.84	39.84	149.7	4 / 4	90.71
Inorganic	Antimony	mg/kg	0.0132 / 0.01434	ND	ND	ND	0 / 4	0
Inorganic	Arsenic	mg/kg		0.2552	0.2552	0.3472	4 / 4	0.3066
Inorganic	Barium	mg/kg		1.879	1.879	3.732	4 / 4	2.736
Inorganic	Beryllium	mg/kg	0.0264 / 0.02912	ND	ND	ND	0 / 4	0
Inorganic	Boron	mg/kg	0.384 / 0.4032	ND	ND	ND	0 / 4	0
Inorganic	Cadmium	mg/kg		0.00912	0.00912	0.01501	4 / 4	0.01264
Inorganic	Calcium	mg/kg		11600	11600	20789	4 / 4	14897
Inorganic	Chromium	mg/kg	0.1152 / 0.123	ND	0.224	0.3472	2 / 4	0.2856
Inorganic	Cobalt	mg/kg		0.0432	0.0432	0.1215	4 / 4	0.07518
Inorganic	Copper	mg/kg		0.408	0.408	0.6272	4 / 4	0.5398
Inorganic	Iron	mg/kg		34.56	34.56	122.4	4 / 4	72.45
Inorganic	Lead	mg/kg		0.0504	0.0504	0.1953	4 / 4	0.1067
Inorganic	Magnesium	mg/kg		387.4	387.4	464.4	4 / 4	433.2
Inorganic	Manganese	mg/kg		18.99	18.99	27.78	4 / 4	23.67
Inorganic	Mercury	mg/kg		0.01725	0.01725	0.02604	4 / 4	0.02108
Inorganic	Molybdenum	mg/kg		0.04872	0.04872	0.06048	4 / 4	0.05461
Inorganic	Nickel	mg/kg	0.0888 / 0.0888	ND	0.1814	0.5104	3 / 4	0.2993
Inorganic	Potassium	mg/kg		2517	2517	2691	4 / 4	2624
Inorganic	Selenium	mg/kg		0.576	0.576	0.9114	4 / 4	0.7243
Inorganic	Silver	mg/kg	0.00264 / 0.00291	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		763.8	763.8	863	4 / 4	830.4
Inorganic	Strontium	mg/kg		13.8	13.8	23.87	4 / 4	17.3
Inorganic	Thallium	mg/kg	0.01346 / 0.03255	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg		0.1995	0.1995	0.4774	4 / 4	0.3376
Inorganic	Zinc	mg/kg		26.68	26.68	32.4	4 / 4	30.86
Physical Properties	% Lipids	%		1.2	1.2	4.1	4 / 4	2.925
Physical Properties	% Moisture	%		76	76	78.3	4 / 4	77.18

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-12: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	7.6 / 40.5	ND	26.4	26.4	1 / 5	26.4
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.053 / 0.28	ND	0.16	0.33	4 / 5	0.2175
Inorganic	Barium	mg/kg		1.8	1.8	5.9	5 / 5	3.54
Inorganic	Beryllium	mg/kg	0.056 / 0.3	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.79 / 4.2	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.017 / 0.077	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		26100	26100	69300	5 / 5	48900
Inorganic	Chromium	mg/kg	0.24 / 1.3	ND	0.66	0.82	3 / 5	0.75
Inorganic	Cobalt	mg/kg	0.027 / 0.14	ND	0.05	0.05	1 / 5	0.05
Inorganic	Copper	mg/kg	0.27 / 1.5	ND	0.52	0.52	1 / 5	0.52
Inorganic	Iron	mg/kg	22.9 / 122	ND	41.1	41.1	1 / 5	41.1
Inorganic	Lead	mg/kg		0.12	0.12	0.21	5 / 5	0.178
Inorganic	Magnesium	mg/kg		565	565	1140	5 / 5	921
Inorganic	Manganese	mg/kg		13.6	13.6	38.2	5 / 5	27.46
Inorganic	Mercury	mg/kg		0.027	0.027	0.066	5 / 5	0.0404
Inorganic	Molybdenum	mg/kg	0.067 / 0.36	ND	0.073	0.073	1 / 5	0.073
Inorganic	Nickel	mg/kg	0.19 / 0.99	ND	0.21	0.21	1 / 5	0.21
Inorganic	Potassium	mg/kg		2300	2300	2540	5 / 5	2456
Inorganic	Selenium	mg/kg	0.13 / 0.69	ND	0.61	0.65	3 / 5	0.6267
Inorganic	Silver	mg/kg	0.0055 / 0.029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		1560	1560	1900	5 / 5	1718
Inorganic	Strontium	mg/kg		19.7	19.7	64.2	5 / 5	43.32
Inorganic	Thallium	mg/kg	0.013 / 0.027	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.087 / 0.46	ND	0.17	0.3	3 / 5	0.2333
Inorganic	Zinc	mg/kg		50.8	50.8	54.4	5 / 5	52.56

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-13: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.9 / 4.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.039	0.039	0.15	5 / 5	0.082
Inorganic	Barium	mg/kg	0.044 / 0.047	ND	0.057	0.11	2 / 5	0.0835
Inorganic	Beryllium	mg/kg	0.028 / 0.031	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.0079	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		153	153	770	5 / 5	420.8
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	0.25	0.25	1 / 5	0.25
Inorganic	Cobalt	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg		0.23	0.23	0.39	5 / 5	0.298
Inorganic	Iron	mg/kg	11.6 / 12.5	ND	13.9	13.9	1 / 5	13.9
Inorganic	Lead	mg/kg	0.027 / 0.029	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		268	268	292	5 / 5	281.4
Inorganic	Manganese	mg/kg		0.23	0.23	1.1	5 / 5	0.45
Inorganic	Mercury	mg/kg		0.044	0.044	0.14	5 / 5	0.0668
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.094 / 0.1	ND	0.11	0.11	1 / 5	0.11
Inorganic	Potassium	mg/kg		3250	3250	3720	5 / 5	3522
Inorganic	Selenium	mg/kg		0.56	0.56	0.88	5 / 5	0.736
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		273	273	370	5 / 5	311.6
Inorganic	Strontium	mg/kg		0.082	0.082	0.71	5 / 5	0.3464
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.044 / 0.047	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		11.3	11.3	21.7	5 / 5	15.96
Physical Properties	% Lipids	%		0.78	0.78	1.3	5 / 5	1.04
Physical Properties	% Moisture	%		76.3	76.3	81.1	5 / 5	79.54
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.11 / 0.165	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0008 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.11 / 0.165	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-14: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		58.19	58.19	221.2	3 / 3	126.9
Inorganic	Antimony	mg/kg	0.0138 / 0.01469	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.3164	0.3164	0.4014	3 / 3	0.3466
Inorganic	Barium	mg/kg		1.955	1.955	4.036	3 / 3	3.014
Inorganic	Beryllium	mg/kg	0.0276 / 0.06102	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.391 / 0.4294	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01424	0.01424	0.01656	3 / 3	0.01525
Inorganic	Calcium	mg/kg		15111	15111	21402	3 / 3	17746
Inorganic	Chromium	mg/kg		0.1794	0.1794	0.4972	3 / 3	0.3593
Inorganic	Cobalt	mg/kg		0.0598	0.0598	0.1918	3 / 3	0.12
Inorganic	Copper	mg/kg		0.565	0.565	0.667	3 / 3	0.6262
Inorganic	Iron	mg/kg		65.09	65.09	238.6	3 / 3	132.3
Inorganic	Lead	mg/kg		0.0851	0.0851	0.1873	3 / 3	0.1465
Inorganic	Magnesium	mg/kg		414	414	562.7	3 / 3	484.6
Inorganic	Manganese	mg/kg		17.02	17.02	36.57	3 / 3	24.46
Inorganic	Mercury	mg/kg		0.01633	0.01633	0.02486	3 / 3	0.02116
Inorganic	Molybdenum	mg/kg		0.0506	0.0506	0.08136	3 / 3	0.06703
Inorganic	Nickel	mg/kg		0.1242	0.1242	0.2899	3 / 3	0.193
Inorganic	Potassium	mg/kg		2644	2644	2743	3 / 3	2677
Inorganic	Selenium	mg/kg		0.713	0.713	1.026	3 / 3	0.8885
Inorganic	Silver	mg/kg	0.00276 / 0.00294	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		862.5	862.5	1078	3 / 3	965.7
Inorganic	Strontium	mg/kg		15.59	15.59	20.07	3 / 3	17.86
Inorganic	Thallium	mg/kg	0.02139 / 0.04068	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.23	0.23	0.6244	3 / 3	0.4129
Inorganic	Zinc	mg/kg		35.88	35.88	44.75	3 / 3	39.44
Physical Properties	% Lipids	%		0.73	0.73	3.4	3 / 3	1.843
Physical Properties	% Moisture	%		77	77	77.7	3 / 3	77.37

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-15: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 20.5	ND	10.5	25.9	4 / 8	21.13
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg	0.027 / 0.13	ND	0.089	0.22	7 / 8	0.1699
Inorganic	Barium	mg/kg		1.7	1.7	3	8 / 8	2.238
Inorganic	Beryllium	mg/kg	0.028 / 0.15	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.4 / 2.1	ND	ND	ND	0 / 8	0
Inorganic	Cadmium	mg/kg	0.0071 / 0.012	ND	0.012	0.055	3 / 8	0.028
Inorganic	Calcium	mg/kg		19000	19000	46500	8 / 8	34788
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	0.14	1.4	6 / 8	0.6683
Inorganic	Cobalt	mg/kg	0.013 / 0.072	ND	0.036	0.055	5 / 8	0.0478
Inorganic	Copper	mg/kg	0.14 / 0.74	ND	0.24	0.35	5 / 8	0.284
Inorganic	Iron	mg/kg	11.5 / 61.9	ND	16.1	38.7	5 / 8	26.2
Inorganic	Lead	mg/kg		0.04	0.04	0.16	8 / 8	0.09963
Inorganic	Magnesium	mg/kg		440	440	1040	8 / 8	740.5
Inorganic	Manganese	mg/kg		13.8	13.8	30.4	8 / 8	23.45
Inorganic	Mercury	mg/kg		0.036	0.036	0.061	8 / 8	0.04625
Inorganic	Molybdenum	mg/kg	0.033 / 0.066	ND	0.086	0.1	3 / 8	0.093
Inorganic	Nickel	mg/kg	0.093 / 0.92	ND	ND	ND	0 / 8	0
Inorganic	Potassium	mg/kg		1900	1900	2690	8 / 8	2275
Inorganic	Selenium	mg/kg		0.49	0.49	0.62	8 / 8	0.54
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		1300	1300	2230	8 / 8	1683
Inorganic	Strontium	mg/kg		9.6	9.6	38.5	8 / 8	25.89
Inorganic	Thallium	mg/kg	0.013 / 0.017	ND	ND	ND	0 / 8	0
Inorganic	Vanadium	mg/kg	0.044 / 0.23	ND	0.069	0.16	5 / 8	0.1218
Inorganic	Zinc	mg/kg		23	23	58.4	8 / 8	40.8
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.0922	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg	0.05 / 0.05	ND	0.222	0.222	1 / 2	0.222

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-15: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0122	0.0122	1 / 2	0.0122
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.0092	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0065	0.0065	1 / 2	0.0065
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0046	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.0461	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.138	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.2	1.2	9.2	7 / 7	4.3
Physical Properties	% Moisture	%		63.5	63.5	74	7 / 7	70.07
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.174 / 0.184	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	0.005	0.005	1 / 2	0.005
Speciation	Organic Arsenic	mg/kg	0.174 / 0.184	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-16: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.2	ND	ND	ND	0 / 11	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 11	0
Inorganic	Arsenic	mg/kg		0.03384	0.03384	0.16	11 / 11	0.08487
Inorganic	Barium	mg/kg	0.043 / 0.04779	ND	0.062	0.44	5 / 11	0.2304
Inorganic	Beryllium	mg/kg	0.028 / 0.031	ND	ND	ND	0 / 11	0
Inorganic	Boron	mg/kg	0.39 / 0.43	ND	0.49	0.49	1 / 11	0.49
Inorganic	Cadmium	mg/kg	0.0071 / 0.01591	ND	ND	ND	0 / 11	0
Inorganic	Calcium	mg/kg		132	132	7940	11 / 11	1886
Inorganic	Chromium	mg/kg	0.12 / 0.1306	ND	0.31	0.31	1 / 11	0.31
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 11	0
Inorganic	Copper	mg/kg	0.13 / 0.14	ND	0.15	0.4136	10 / 11	0.2563
Inorganic	Iron	mg/kg	11.3 / 12.5	ND	ND	ND	0 / 11	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 11	0
Inorganic	Magnesium	mg/kg		218	218	368	11 / 11	284.8
Inorganic	Manganese	mg/kg		0.19	0.19	8.8	11 / 11	1.753
Inorganic	Mercury	mg/kg		0.051	0.051	0.14	11 / 11	0.08009
Inorganic	Molybdenum	mg/kg	0.033 / 0.03672	ND	ND	ND	0 / 11	0
Inorganic	Nickel	mg/kg	0.091 / 0.376	ND	0.14	0.14	1 / 11	0.14
Inorganic	Potassium	mg/kg		2530	2530	3937	11 / 11	3305
Inorganic	Selenium	mg/kg		0.4956	0.4956	0.63	11 / 11	0.5423
Inorganic	Silver	mg/kg	0.0027 / 0.00306	ND	ND	ND	0 / 11	0
Inorganic	Sodium	mg/kg		233.6	233.6	549	11 / 11	371.4
Inorganic	Strontium	mg/kg		0.07956	0.07956	5.8	11 / 11	1.475
Inorganic	Thallium	mg/kg	0.013 / 0.01428	ND	ND	ND	0 / 11	0
Inorganic	Vanadium	mg/kg	0.043 / 0.047	ND	ND	ND	0 / 11	0
Inorganic	Zinc	mg/kg		9	9	20.6	11 / 11	15.39
Physical Properties	% Lipids	%		0.37	0.37	3.4	11 / 11	0.9618
Physical Properties	% Moisture	%		75.1	75.1	84.1	11 / 11	81.07
Speciation	Arsenate	mg/kg	0.003 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.166 / 0.179	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0007 / 0.0008	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.166 / 0.179	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-17: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		32.71	32.71	45.1	3 / 3	37.45
Inorganic	Antimony	mg/kg	0.014 / 0.01438	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.14	0.14	0.1562	3 / 3	0.1459
Inorganic	Barium	mg/kg		1.188	1.188	1.4	3 / 3	1.311
Inorganic	Beryllium	mg/kg	0.0286 / 0.03016	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.41 / 0.418	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00742 / 0.0076	ND	0.00858	0.01021	2 / 3	0.009395
Inorganic	Calcium	mg/kg		13665	13665	15400	3 / 3	14396
Inorganic	Chromium	mg/kg		0.14	0.14	0.1879	3 / 3	0.1599
Inorganic	Cobalt	mg/kg		0.03712	0.03712	0.053	3 / 3	0.04251
Inorganic	Copper	mg/kg		0.34	0.34	0.462	3 / 3	0.4065
Inorganic	Iron	mg/kg		38.98	38.98	65	3 / 3	51.97
Inorganic	Lead	mg/kg		0.05104	0.05104	0.067	3 / 3	0.05841
Inorganic	Magnesium	mg/kg		424.6	424.6	487	3 / 3	446.1
Inorganic	Manganese	mg/kg		13.11	13.11	15.4	3 / 3	13.93
Inorganic	Mercury	mg/kg		0.033	0.033	0.051	3 / 3	0.04115
Inorganic	Molybdenum	mg/kg	0.0348 / 0.037	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.0968 / 0.098	ND	0.1628	0.1628	1 / 3	0.1628
Inorganic	Potassium	mg/kg		2622	2622	2706	3 / 3	2673
Inorganic	Selenium	mg/kg		0.528	0.528	0.63	3 / 3	0.5793
Inorganic	Silver	mg/kg	0.00278 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		872.3	872.3	955	3 / 3	905.4
Inorganic	Strontium	mg/kg		11.73	11.73	13.7	3 / 3	12.61
Inorganic	Thallium	mg/kg	0.01364 / 0.01694	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.06496	0.06496	0.12	3 / 3	0.09612
Inorganic	Zinc	mg/kg		29	29	33.44	3 / 3	31.78
Physical Properties	% Lipids	%		1.1	1.1	2.3	3 / 3	1.733
Physical Properties	% Moisture	%		76.8	76.8	78	3 / 3	77.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-18: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.686	5.686	30.51	2 / 2	18.1
Inorganic	Antimony	mg/kg	0.0133 / 0.0149	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1897	0.1897	0.3864	6 / 6	0.2716
Inorganic	Barium	mg/kg		1.463	1.463	3.991	6 / 6	2.114
Inorganic	Beryllium	mg/kg	0.0275 / 0.03036	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.375 / 0.4416	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.00975	0.00975	0.01684	6 / 6	0.01254
Inorganic	Calcium	mg/kg		27250	27250	34136	6 / 6	29804
Inorganic	Chromium	mg/kg	0.1155 / 0.1289	ND	0.1535	0.1657	3 / 6	0.1616
Inorganic	Cobalt	mg/kg		0.0252	0.0252	0.05523	6 / 6	0.04039
Inorganic	Copper	mg/kg		0.3012	0.3012	0.425	6 / 6	0.3712
Inorganic	Iron	mg/kg		13.91	13.91	43.13	6 / 6	22.48
Inorganic	Lead	mg/kg		0.045	0.045	0.1758	6 / 6	0.09353
Inorganic	Magnesium	mg/kg		560	560	695.3	6 / 6	629.4
Inorganic	Manganese	mg/kg		9.4	9.4	16.26	6 / 6	14.32
Inorganic	Mercury	mg/kg		0.0251	0.0251	0.03588	6 / 6	0.02955
Inorganic	Molybdenum	mg/kg	0.06739 / 0.1983	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.09962	ND	0.1104	0.1236	2 / 6	0.117
Inorganic	Potassium	mg/kg		2140	2140	2483	6 / 6	2338
Inorganic	Selenium	mg/kg		0.6696	0.6696	0.9287	6 / 6	0.8031
Inorganic	Silver	mg/kg	0.00275 / 0.00304	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1545	1545	1705	6 / 6	1620
Inorganic	Strontium	mg/kg		23.78	23.78	33.89	6 / 6	28.18
Inorganic	Thallium	mg/kg	0.01311 / 0.03012	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.1088	0.1088	0.3419	6 / 6	0.1929
Inorganic	Zinc	mg/kg		36	36	44.44	6 / 6	39.24
Organic-PCBs	PCB-1016	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.091 / 0.134	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg		0.157	0.157	0.307	2 / 2	0.232

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-18: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 3.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.0091 / 0.0134	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0045 / 0.0067	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.0455 / 0.0668	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.136 / 0.2	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.1	1.1	2.4	8 / 8	1.575
Physical Properties	% Moisture	%		70.7	70.7	76	8 / 8	73.36
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.145 / 0.145	ND	0.236	0.236	1 / 2	0.236
Speciation	Arsenite	mg/kg		0.009	0.009	0.012	2 / 2	0.0105
Speciation	Inorganic Arsenic	mg/kg		0.01	0.01	0.015	2 / 2	0.0125
Speciation	Organic Arsenic	mg/kg	0.145 / 0.145	ND	0.221	0.221	1 / 2	0.221

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-19: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Antimony	mg/kg	0.0127 / 0.0147	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02392 / 0.1387	ND	0.138	0.2282	4 / 6	0.1743
Inorganic	Barium	mg/kg		0.0546	0.0546	0.184	5 / 5	0.1188
Inorganic	Beryllium	mg/kg	0.02576 / 0.02912	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.368 / 0.4186	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00662 / 0.00766	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		201	201	3342	6 / 6	1712
Inorganic	Chromium	mg/kg	0.1104 / 0.1283	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01233 / 0.01428	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.127 / 0.147	ND	0.1597	0.2448	5 / 6	0.2006
Inorganic	Lead	mg/kg	0.02392 / 0.0273	ND	0.02898	0.02898	1 / 6	0.02898
Inorganic	Magnesium	mg/kg		242.1	242.1	325	6 / 6	293.8
Inorganic	Manganese	mg/kg	0.149 / 0.1718	ND	0.306	1.712	5 / 6	1.061
Inorganic	Mercury	mg/kg		0.046	0.046	0.05542	6 / 6	0.05024
Inorganic	Molybdenum	mg/kg	0.03128 / 0.0364	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08464 / 0.09936	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2584	2584	3511	6 / 6	3157
Inorganic	Selenium	mg/kg		0.644	0.644	0.8976	6 / 6	0.7771
Inorganic	Silver	mg/kg	0.00258 / 0.00346	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		471.2	471.2	662.5	6 / 6	566.3
Inorganic	Strontium	mg/kg		0.178	0.178	2.95	6 / 6	1.584
Inorganic	Thallium	mg/kg	0.01196 / 0.01718	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04048 / 0.04554	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg	9.513 / 10.99	ND	13.21	14.46	4 / 6	13.6
Physical Properties	% Lipids	%		0.17	0.17	0.47	6 / 6	0.3133
Physical Properties	% Moisture	%		79.3	79.3	83.7	6 / 6	81.32
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.107 / 0.181	ND	0.114	0.114	1 / 2	0.114
Speciation	Arsenite	mg/kg	0.0005 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.107 / 0.181	ND	0.114	0.114	1 / 2	0.114

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-20: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		21.59	21.59	82.67	8 / 8	49.04
Inorganic	Antimony	mg/kg	0.01351 / 0.01493	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg		0.228	0.228	0.3094	8 / 8	0.273
Inorganic	Barium	mg/kg		1.161	1.161	2.179	8 / 8	1.769
Inorganic	Beryllium	mg/kg	0.02724 / 0.03094	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.3859 / 0.4266	ND	ND	ND	0 / 8	0
Inorganic	Cadmium	mg/kg		0.0114	0.0114	0.0229	8 / 8	0.01502
Inorganic	Calcium	mg/kg		11519	11519	19658	8 / 8	15111
Inorganic	Chromium	mg/kg	0.1186 / 0.1304	ND	0.137	0.2951	5 / 8	0.2091
Inorganic	Cobalt	mg/kg		0.02736	0.02736	0.08172	8 / 8	0.05279
Inorganic	Copper	mg/kg		0.454	0.454	2.107	8 / 8	0.8644
Inorganic	Iron	mg/kg		23.34	23.34	80.13	8 / 8	47.67
Inorganic	Lead	mg/kg		0.04029	0.04029	0.1397	8 / 8	0.08684
Inorganic	Magnesium	mg/kg		395.8	395.8	563	8 / 8	457.1
Inorganic	Manganese	mg/kg		12.28	12.28	21.96	8 / 8	16.82
Inorganic	Mercury	mg/kg		0.0041	0.0041	0.03164	8 / 8	0.02112
Inorganic	Molybdenum	mg/kg	0.03192 / 0.07718	ND	0.04332	0.06356	4 / 8	0.05031
Inorganic	Nickel	mg/kg	0.0912 / 0.1019	ND	0.09988	0.4122	5 / 8	0.1775
Inorganic	Potassium	mg/kg		2588	2588	2838	8 / 8	2727
Inorganic	Selenium	mg/kg		0.6412	0.6412	0.9307	8 / 8	0.7621
Inorganic	Silver	mg/kg	0.00272 / 0.00308	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		796.9	796.9	1071	8 / 8	914.8
Inorganic	Strontium	mg/kg		10.26	10.26	18.98	8 / 8	14.4
Inorganic	Thallium	mg/kg	0.01872 / 0.03876	ND	ND	ND	0 / 8	0
Inorganic	Vanadium	mg/kg		0.0948	0.0948	0.2873	8 / 8	0.2026
Inorganic	Zinc	mg/kg		27.18	27.18	47.91	8 / 8	36.06
Physical Properties	% Lipids	%		1.3	1.3	4.2	8 / 8	2.8
Physical Properties	% Moisture	%		76.3	76.3	77.9	8 / 8	77.23

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-21: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	19 / 20.6	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.13 / 0.14	ND	0.33	0.33	1 / 3	0.33
Inorganic	Barium	mg/kg		1.6	1.6	2.4	3 / 3	1.867
Inorganic	Beryllium	mg/kg	0.14 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	2 / 2.1	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.036 / 0.039	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		25000	25000	40300	3 / 3	33567
Inorganic	Chromium	mg/kg	0.6 / 0.65	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.067 / 0.073	ND	0.086	0.086	1 / 3	0.086
Inorganic	Copper	mg/kg	0.69 / 0.74	ND	ND	ND	0 / 3	0
Inorganic	Iron	mg/kg	57.3 / 62.1	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg		0.039	0.039	0.11	3 / 3	0.08633
Inorganic	Magnesium	mg/kg		568	568	864	3 / 3	752.7
Inorganic	Manganese	mg/kg		15.5	15.5	35.2	3 / 3	22.17
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	0.017	0.02	2 / 3	0.0185
Inorganic	Molybdenum	mg/kg	0.17 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.46 / 0.5	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2080	2080	2840	3 / 3	2477
Inorganic	Selenium	mg/kg		0.4	0.4	0.76	3 / 3	0.62
Inorganic	Silver	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1270	1270	1850	3 / 3	1593
Inorganic	Strontium	mg/kg		19.9	19.9	30.2	3 / 3	24.37
Inorganic	Thallium	mg/kg	0.014 / 0.02	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.22 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		27.3	27.3	53.8	3 / 3	40.93

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-22: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 4	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.027 / 0.028	ND	0.045	0.19	2 / 3	0.1175
Inorganic	Barium	mg/kg	0.044 / 0.046	ND	0.14	0.14	2 / 3	0.14
Inorganic	Beryllium	mg/kg	0.028 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.41	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.0076	ND	0.014	0.014	1 / 3	0.014
Inorganic	Calcium	mg/kg		196	196	2050	3 / 3	1382
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	0.017	0.017	1 / 3	0.017
Inorganic	Copper	mg/kg		0.22	0.22	0.46	3 / 3	0.32
Inorganic	Iron	mg/kg	11.5 / 12	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.027 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Magnesium	mg/kg		298	298	329	3 / 3	313.7
Inorganic	Manganese	mg/kg		0.26	0.26	1.8	3 / 3	0.9
Inorganic	Mercury	mg/kg		0.012	0.012	0.024	3 / 3	0.019
Inorganic	Molybdenum	mg/kg	0.034 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.093 / 0.097	ND	0.11	0.11	1 / 3	0.11
Inorganic	Potassium	mg/kg		3550	3550	4260	3 / 3	3923
Inorganic	Selenium	mg/kg		0.38	0.38	0.67	3 / 3	0.56
Inorganic	Silver	mg/kg	0.0028 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		415	415	473	3 / 3	436.3
Inorganic	Strontium	mg/kg		0.12	0.12	1.5	3 / 3	1.04
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.044 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		9.8	9.8	20.9	3 / 3	15.53
Physical Properties	% Lipids	%		0.64	0.64	0.88	3 / 3	0.78
Physical Properties	% Moisture	%		77.8	77.8	79.2	3 / 3	78.5

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-23: TVA SAP Sampling, Spring 2010 - Bluegill Carcass at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	18.57 / 19.89	ND	30.81	125.7	2 / 3	78.26
Inorganic	Antimony	mg/kg	0.01329 / 0.01443	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.1298 / 0.1408	ND	0.4017	0.4947	2 / 3	0.4482
Inorganic	Barium	mg/kg		2.675	2.675	5.655	3 / 3	3.882
Inorganic	Beryllium	mg/kg	0.136 / 0.1478	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	1.916 / 2.077	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.07107 / 0.07744	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		25113	25113	50058	3 / 3	38081
Inorganic	Chromium	mg/kg	0.5871 / 0.6336	ND	2.561	2.561	1 / 3	2.561
Inorganic	Cobalt	mg/kg	0.06489 / 0.0704	ND	0.07107	0.1339	2 / 3	0.1025
Inorganic	Copper	mg/kg	0.6693 / 0.704	ND	0.873	0.873	1 / 3	0.873
Inorganic	Iron	mg/kg	55.93 / 59.84	ND	132.4	132.4	1 / 3	132.4
Inorganic	Lead	mg/kg		0.1162	0.1162	0.2534	3 / 3	0.1979
Inorganic	Magnesium	mg/kg		660.6	660.6	1156	3 / 3	857.8
Inorganic	Manganese	mg/kg		32.03	32.03	54.08	3 / 3	39.47
Inorganic	Mercury	mg/kg		0.02147	0.02147	0.02966	3 / 3	0.02674
Inorganic	Molybdenum	mg/kg	0.1638 / 0.176	ND	0.195	0.2379	2 / 3	0.2165
Inorganic	Nickel	mg/kg	0.4635 / 0.4928	ND	0.873	0.873	1 / 3	0.873
Inorganic	Potassium	mg/kg		2256	2256	2604	3 / 3	2464
Inorganic	Selenium	mg/kg		0.7107	0.7107	0.88	3 / 3	0.7921
Inorganic	Silver	mg/kg	0.01329 / 0.01443	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1577	1577	1993	3 / 3	1736
Inorganic	Strontium	mg/kg		25.14	25.14	51.6	3 / 3	38.6
Inorganic	Thallium	mg/kg	0.02042 / 0.03783	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.2132 / 0.4506	ND	0.4635	0.5238	2 / 3	0.4937
Inorganic	Zinc	mg/kg		41.89	41.89	67.05	3 / 3	51.74

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-24: TVA SAP Sampling, Spring 2010 - Bluegill Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.993 / 4.115	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01435 / 0.0149	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.05425	0.05425	0.3216	6 / 6	0.1606
Inorganic	Barium	mg/kg	0.04557 / 0.04632	ND	0.05025	0.05859	4 / 6	0.05408
Inorganic	Beryllium	mg/kg	0.0288 / 0.03078	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.4048 / 0.4246	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00754 / 0.01563	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		190.7	190.7	487.8	6 / 6	306.6
Inorganic	Chromium	mg/kg	0.1266 / 0.1312	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01398 / 0.01442	ND	0.01544	0.01544	1 / 6	0.01544
Inorganic	Copper	mg/kg		0.216	0.216	0.4221	6 / 6	0.2851
Inorganic	Iron	mg/kg	12.02 / 12.41	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0276 / 0.02916	ND	0.0651	0.0651	1 / 6	0.0651
Inorganic	Magnesium	mg/kg		243	243	340.7	6 / 6	290.1
Inorganic	Manganese	mg/kg		0.184	0.184	0.3906	6 / 6	0.2926
Inorganic	Mercury	mg/kg		0.03689	0.03689	0.07728	6 / 6	0.05497
Inorganic	Molybdenum	mg/kg	0.03472 / 0.03618	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.0972 / 0.1004	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3159	3159	3906	6 / 6	3683
Inorganic	Selenium	mg/kg		0.644	0.644	1.063	6 / 6	0.8095
Inorganic	Silver	mg/kg	0.00281 / 0.00294	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		299.9	299.9	501.3	6 / 6	365.8
Inorganic	Strontium	mg/kg		0.1776	0.1776	0.414	6 / 6	0.2795
Inorganic	Thallium	mg/kg	0.01782 / 0.03015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.00907 / 0.09114	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		12.71	12.71	16.24	6 / 6	14.6
Physical Properties	% Lipids	%		0.55	0.55	2.7	6 / 6	1.642
Physical Properties	% Moisture	%		78.3	78.3	83.8	5 / 5	81.12

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-25: TVA SAP Sampling, Spring 2010 - Bluegill Whole Body at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		54.97	54.97	453.4	3 / 3	189.1
Inorganic	Antimony	mg/kg	0.01436 / 0.01467	ND	0.01718	0.01718	1 / 3	0.01718
Inorganic	Arsenic	mg/kg		0.2847	0.2847	0.7328	3 / 3	0.438
Inorganic	Barium	mg/kg		1.847	1.847	6.527	3 / 3	3.507
Inorganic	Beryllium	mg/kg	0.02964 / 0.03066	ND	0.04809	0.04809	1 / 3	0.04809
Inorganic	Boron	mg/kg	0.4104 / 0.4161	ND	0.5038	0.5038	1 / 3	0.5038
Inorganic	Cadmium	mg/kg		0.01599	0.01599	0.03893	3 / 3	0.02393
Inorganic	Calcium	mg/kg		16165	16165	20520	3 / 3	18465
Inorganic	Chromium	mg/kg		0.1619	0.1619	0.6412	3 / 3	0.3268
Inorganic	Cobalt	mg/kg		0.05694	0.05694	0.3206	3 / 3	0.1464
Inorganic	Copper	mg/kg		0.5016	0.5016	1.397	3 / 3	0.8519
Inorganic	Iron	mg/kg		55.63	55.63	451.1	3 / 3	188
Inorganic	Lead	mg/kg		0.0876	0.0876	0.4809	3 / 3	0.2222
Inorganic	Magnesium	mg/kg		499.3	499.3	565.6	3 / 3	531.6
Inorganic	Manganese	mg/kg		11.65	11.65	36.64	3 / 3	21.15
Inorganic	Mercury	mg/kg		0.02847	0.02847	0.03664	3 / 3	0.0331
Inorganic	Molybdenum	mg/kg	0.07752 / 0.1122	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.1117	0.1117	0.5954	3 / 3	0.2759
Inorganic	Potassium	mg/kg		2847	2847	2931	3 / 3	2884
Inorganic	Selenium	mg/kg		0.7665	0.7665	0.916	3 / 3	0.8268
Inorganic	Silver	mg/kg	0.00285 / 0.00298	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1056	1056	1093	3 / 3	1075
Inorganic	Strontium	mg/kg		15.87	15.87	20.83	3 / 3	18.76
Inorganic	Thallium	mg/kg	0.02508 / 0.06183	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.2628	0.2628	1.305	3 / 3	0.6138
Inorganic	Zinc	mg/kg		39.44	39.44	46.49	3 / 3	43.46
Physical Properties	% Lipids	%		0.84	0.84	1.1	3 / 3	0.94
Physical Properties	% Moisture	%		77.1	77.1	78.1	3 / 3	77.47

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-26: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.5 / 4.1	ND	ND	ND	0 / 8	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg	0.025 / 0.029	ND	0.035	0.035	1 / 8	0.035
Inorganic	Barium	mg/kg		1.3	1.3	3.5	8 / 8	2.325
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.37 / 0.42	ND	ND	ND	0 / 8	0
Inorganic	Cadmium	mg/kg	0.0067 / 0.0075	ND	0.015	0.028	5 / 8	0.0204
Inorganic	Calcium	mg/kg		13500	13500	34100	8 / 8	19450
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.21	0.21	1 / 8	0.21
Inorganic	Cobalt	mg/kg		0.034	0.034	0.58	8 / 8	0.1178
Inorganic	Copper	mg/kg		0.29	0.29	3.6	8 / 8	1.013
Inorganic	Iron	mg/kg		34.4	34.4	90.1	8 / 8	55.49
Inorganic	Lead	mg/kg		0.061	0.061	0.22	8 / 8	0.121
Inorganic	Magnesium	mg/kg		331	331	686	8 / 8	474.9
Inorganic	Manganese	mg/kg		6.6	6.6	13.8	8 / 8	8.913
Inorganic	Mercury	mg/kg		0.029	0.029	0.16	8 / 8	0.06213
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 8	0
Inorganic	Nickel	mg/kg	0.086 / 0.1	ND	ND	ND	0 / 8	0
Inorganic	Potassium	mg/kg		1480	1480	2310	8 / 8	2045
Inorganic	Selenium	mg/kg		0.29	0.29	0.6	8 / 8	0.4213
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	0.0045	0.0045	1 / 8	0.0045
Inorganic	Sodium	mg/kg		957	957	1860	8 / 8	1398
Inorganic	Strontium	mg/kg		13.2	13.2	35.7	8 / 8	17.89
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 8	0
Inorganic	Vanadium	mg/kg	0.04 / 0.047	ND	0.046	0.081	7 / 8	0.06357
Inorganic	Zinc	mg/kg		23.4	23.4	40.7	8 / 8	32.8
Organic-PCBs	PCB-1016	mg/kg	0.15 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.15 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.15 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.15 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.15 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.15 / 0.2	ND	0.259	0.259	1 / 2	0.259
Organic-PCBs	PCB-1260	mg/kg		0.587	0.587	0.829	2 / 2	0.708

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-26: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0279	0.0279	0.0389	2 / 2	0.0334
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0152	0.0152	0.0153	2 / 2	0.01525
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0064	0.0064	0.0135	2 / 2	0.00995
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0076	0.0076	1 / 2	0.0076
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.6	1.6	15.3	10 / 10	6.27
Physical Properties	% Moisture	%		67.1	67.1	77.2	10 / 10	71.87
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.149 / 0.186	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0009 / 0.002	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.149 / 0.186	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-27: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 8	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 8	0
Inorganic	Arsenic	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 8	0
Inorganic	Barium	mg/kg	0.042 / 0.046	ND	0.07	0.13	6 / 8	0.106
Inorganic	Beryllium	mg/kg	0.027 / 0.031	ND	ND	ND	0 / 8	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 8	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 8	0
Inorganic	Calcium	mg/kg		154	154	1160	8 / 8	635.4
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 8	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 8	0
Inorganic	Copper	mg/kg		0.19	0.19	0.42	8 / 8	0.2825
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 8	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 8	0
Inorganic	Magnesium	mg/kg		233	233	275	8 / 8	248.8
Inorganic	Manganese	mg/kg		0.23	0.23	0.95	8 / 8	0.4413
Inorganic	Mercury	mg/kg		0.065	0.065	0.24	8 / 8	0.1183
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 8	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	0.19	0.2	2 / 8	0.195
Inorganic	Potassium	mg/kg		3740	3740	4350	8 / 8	4005
Inorganic	Selenium	mg/kg		0.16	0.16	0.4	8 / 8	0.2425
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 8	0
Inorganic	Sodium	mg/kg		341	341	488	8 / 8	419.9
Inorganic	Strontium	mg/kg		0.15	0.15	1.1	8 / 8	0.5825
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 8	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 8	0
Inorganic	Zinc	mg/kg		6.3	6.3	12.1	8 / 8	7.588
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.11	0.11	0.141	2 / 2	0.1255
Organic-PCBs	PCB-1260	mg/kg		0.32	0.32	0.494	2 / 2	0.407

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-27: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0165	0.0165	0.0206	2 / 2	0.01855
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0089	0.0089	0.0107	2 / 2	0.0098
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0041	0.0041	0.0092	2 / 2	0.00665
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0063	0.0063	1 / 2	0.0063
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.92	0.92	4.1	10 / 10	2.572
Physical Properties	% Moisture	%		79.5	79.5	82.1	10 / 10	80.75
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.14 / 0.173	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0006 / 0.0006	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.14 / 0.173	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-28: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.636 / 4.124	ND	4.853	4.853	1 / 6	4.853
Inorganic	Antimony	mg/kg	0.0131 / 0.01488	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.0252 / 0.02871	ND	0.02771	0.1314	4 / 6	0.06676
Inorganic	Barium	mg/kg		1.117	1.117	4.098	6 / 6	2.473
Inorganic	Beryllium	mg/kg	0.02772 / 0.05394	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.378 / 0.4381	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.00685	0.00685	0.02932	6 / 6	0.0145
Inorganic	Calcium	mg/kg		13688	13688	33376	6 / 6	21934
Inorganic	Chromium	mg/kg	0.1159 / 0.1314	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.03024	0.03024	0.1449	6 / 6	0.0653
Inorganic	Copper	mg/kg		0.4032	0.4032	5.751	6 / 6	1.371
Inorganic	Iron	mg/kg		21.04	21.04	87.96	6 / 6	51.15
Inorganic	Lead	mg/kg		0.06552	0.06552	0.4768	6 / 6	0.1947
Inorganic	Magnesium	mg/kg		367.9	367.9	742	6 / 6	503
Inorganic	Manganese	mg/kg		5.234	5.234	21.55	6 / 6	11.06
Inorganic	Mercury	mg/kg		0.03707	0.03707	0.1144	6 / 6	0.06307
Inorganic	Molybdenum	mg/kg	0.03276 / 0.03707	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.0882 / 0.1018	ND	0.2116	0.2116	1 / 6	0.2116
Inorganic	Potassium	mg/kg		1940	1940	2554	6 / 6	2172
Inorganic	Selenium	mg/kg		0.3504	0.3504	0.5392	6 / 6	0.4368
Inorganic	Silver	mg/kg	0.00252 / 0.00864	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1250	1250	1871	6 / 6	1456
Inorganic	Strontium	mg/kg		10.47	10.47	27.77	6 / 6	18.61
Inorganic	Thallium	mg/kg	0.0126 / 0.02444	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0416 / 0.04698	ND	0.04536	0.155	5 / 6	0.1088
Inorganic	Zinc	mg/kg		23.87	23.87	45.89	6 / 6	32.33
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.5	ND	0.0807	0.0807	1 / 2	0.0807
Organic-PCBs	PCB-1260	mg/kg		0.26	0.26	1.61	2 / 2	0.935

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-28: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 4.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0126	0.0126	0.0228	2 / 2	0.0177
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0071	0.0071	0.0267	2 / 2	0.0169
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0033	0.0033	0.0037	2 / 2	0.0035
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.9	1.9	10.1	8 / 8	4.563
Physical Properties	% Moisture	%		66.3	66.3	78.1	8 / 8	73.26
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.137 / 0.183	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.137 / 0.183	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-29: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.553 / 4.068	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01273 / 0.01471	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.0247 / 0.05481	ND	0.07854	0.07854	1 / 6	0.07854
Inorganic	Barium	mg/kg	0.0399 / 0.04641	ND	0.04966	0.228	5 / 6	0.1359
Inorganic	Beryllium	mg/kg	0.0266 / 0.06048	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.361 / 0.4202	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00684 / 0.0155	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		320.5	320.5	3439	6 / 6	1116
Inorganic	Chromium	mg/kg	0.1121 / 0.1299	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01254 / 0.01433	ND	0.02856	0.02856	1 / 6	0.02856
Inorganic	Copper	mg/kg		0.2079	0.2079	1.802	6 / 6	0.5149
Inorganic	Iron	mg/kg	10.68 / 12.28	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0247 / 0.02873	ND	0.0304	0.06996	2 / 6	0.05018
Inorganic	Magnesium	mg/kg		223.5	223.5	275.5	6 / 6	252.2
Inorganic	Manganese	mg/kg		0.221	0.221	1.71	6 / 6	0.7801
Inorganic	Mercury	mg/kg		0.06188	0.06188	0.2101	6 / 6	0.1125
Inorganic	Molybdenum	mg/kg	0.0304 / 0.03629	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.0874 / 0.09932	ND	0.5512	0.5512	1 / 6	0.5512
Inorganic	Potassium	mg/kg		3572	3572	4219	6 / 6	3927
Inorganic	Selenium	mg/kg		0.1666	0.1666	0.3247	6 / 6	0.2541
Inorganic	Silver	mg/kg	0.00247 / 0.00964	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		418.9	418.9	565.4	6 / 6	499.7
Inorganic	Strontium	mg/kg		0.2873	0.2873	2.394	6 / 6	0.8794
Inorganic	Thallium	mg/kg	0.01216 / 0.02703	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0399 / 0.04641	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.532	6.532	12.75	6 / 6	8.565
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg		0.126	0.126	1.12	2 / 2	0.623

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-29: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 4.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0061	0.0061	0.0168	2 / 2	0.01145
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0202	0.0202	1 / 2	0.0202
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0031	0.0031	1 / 2	0.0031
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.2	1.2	6.1	8 / 8	2.775
Physical Properties	% Moisture	%		76.2	76.2	81.1	8 / 8	79.53
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.17 / 0.183	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0008 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.17 / 0.183	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-30: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.004	ND	7.237	11.76	3 / 7	9.057
Inorganic	Antimony	mg/kg	0.013 / 0.01438	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.04395	0.04395	0.2065	7 / 7	0.08769
Inorganic	Barium	mg/kg		0.61	0.61	6.099	7 / 7	2.494
Inorganic	Beryllium	mg/kg	0.026 / 0.02939	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.37 / 0.423	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg		0.0076	0.0076	0.05301	7 / 7	0.02029
Inorganic	Calcium	mg/kg		9640	9640	32643	7 / 7	22008
Inorganic	Chromium	mg/kg	0.11 / 0.1269	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg		0.02566	0.02566	0.158	7 / 7	0.07761
Inorganic	Copper	mg/kg		0.4395	0.4395	0.88	7 / 7	0.5908
Inorganic	Iron	mg/kg		28.47	28.47	70.8	7 / 7	45.04
Inorganic	Lead	mg/kg		0.05	0.05	0.705	7 / 7	0.2466
Inorganic	Magnesium	mg/kg		299	299	638.9	7 / 7	488.3
Inorganic	Manganese	mg/kg		6.2	6.2	21.48	7 / 7	12.14
Inorganic	Mercury	mg/kg		0.0173	0.0173	0.092	7 / 7	0.04298
Inorganic	Molybdenum	mg/kg	0.031 / 0.03516	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.087 / 0.09796	ND	0.18	0.3948	3 / 7	0.2583
Inorganic	Potassium	mg/kg		1910	1910	2227	7 / 7	2103
Inorganic	Selenium	mg/kg		0.3476	0.3476	0.59	7 / 7	0.4813
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		1320	1320	1883	7 / 7	1658
Inorganic	Strontium	mg/kg		8.3	8.3	30.97	7 / 7	18.35
Inorganic	Thallium	mg/kg	0.012 / 0.01562	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.041 / 0.041	ND	0.05922	0.6975	5 / 7	0.2373
Inorganic	Zinc	mg/kg		22.8	22.8	34.12	7 / 7	29.61
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	0.172	0.172	1 / 2	0.172
Organic-PCBs	PCB-1260	mg/kg		0.299	0.299	0.533	2 / 2	0.416

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-30: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 2.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0055	0.0055	0.0257	2 / 2	0.0156
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0066	0.0066	0.0171	2 / 2	0.01185
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0082	0.0082	1 / 2	0.0082
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0028	0.0028	1 / 2	0.0028
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.4	1.4	7.4	9 / 9	4.689
Physical Properties	% Moisture	%		68.4	68.4	77.8	9 / 9	73.21
Speciation	Arsenate	mg/kg		0.004	0.004	0.005	2 / 2	0.0045
Speciation	Arsenic (from speciation lab)	mg/kg	0.118 / 0.132	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0005 / 0.003	ND	0.004	0.004	1 / 2	0.004
Speciation	Inorganic Arsenic	mg/kg		0.007	0.007	0.009	2 / 2	0.008
Speciation	Organic Arsenic	mg/kg	0.118 / 0.132	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-31: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.744 / 4.02	ND	ND	ND	0 / 7	0
Inorganic	Antimony	mg/kg	0.01358 / 0.01447	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg	0.0264 / 0.02814	ND	0.035	0.09894	2 / 7	0.06697
Inorganic	Barium	mg/kg	0.04268 / 0.046	ND	0.0485	0.2211	6 / 7	0.09141
Inorganic	Beryllium	mg/kg	0.02716 / 0.03015	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.388 / 0.4221	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.00718 / 0.00764	ND	ND	ND	0 / 7	0
Inorganic	Calcium	mg/kg		429	429	1592	7 / 7	751.5
Inorganic	Chromium	mg/kg	0.1183 / 0.13	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg	0.01319 / 0.01407	ND	0.01804	0.02522	2 / 7	0.02163
Inorganic	Copper	mg/kg		0.2412	0.2412	0.485	7 / 7	0.3111
Inorganic	Iron	mg/kg	11.27 / 12.1	ND	ND	ND	0 / 7	0
Inorganic	Lead	mg/kg	0.02522 / 0.02814	ND	ND	ND	0 / 7	0
Inorganic	Magnesium	mg/kg		221	221	251	7 / 7	237.3
Inorganic	Manganese	mg/kg		0.34	0.34	0.9648	7 / 7	0.5724
Inorganic	Mercury	mg/kg		0.02328	0.02328	0.15	7 / 7	0.06732
Inorganic	Molybdenum	mg/kg	0.03298 / 0.03618	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.09118 / 0.09849	ND	ND	ND	0 / 7	0
Inorganic	Potassium	mg/kg		3578	3578	4048	7 / 7	3817
Inorganic	Selenium	mg/kg		0.242	0.242	0.47	7 / 7	0.3571
Inorganic	Silver	mg/kg	0.00272 / 0.0029	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		363.8	363.8	473	7 / 7	411.9
Inorganic	Strontium	mg/kg		0.34	0.34	1.327	7 / 7	0.6161
Inorganic	Thallium	mg/kg	0.0128 / 0.014	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.04268 / 0.04632	ND	ND	ND	0 / 7	0
Inorganic	Zinc	mg/kg		5.5	5.5	7.216	7 / 7	6.37
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	0.0965	0.0965	1 / 2	0.0965
Organic-PCBs	PCB-1260	mg/kg		0.14	0.14	0.296	2 / 2	0.218

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-31: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 2.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0135	0.0135	1 / 2	0.0135
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0084	0.0084	1 / 2	0.0084
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0049	0.0049	1 / 2	0.0049
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.86	0.86	5.2	9 / 9	2.447
Physical Properties	% Moisture	%		77.1	77.1	81.4	9 / 9	79.59
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.125 / 0.126	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0005 / 0.0006	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.125 / 0.126	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-32: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.795 / 4.075	ND	9.641	13.51	2 / 5	11.58
Inorganic	Antimony	mg/kg	0.01385 / 0.01473	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.07202	0.07202	0.2095	5 / 5	0.1473
Inorganic	Barium	mg/kg		1.363	1.363	2.919	5 / 5	2
Inorganic	Beryllium	mg/kg	0.0277 / 0.03058	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.3804 / 0.4305	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg		0.00862	0.00862	0.02784	5 / 5	0.01528
Inorganic	Calcium	mg/kg		16675	16675	28673	5 / 5	22870
Inorganic	Chromium	mg/kg	0.1191 / 0.1292	ND	0.1334	0.1334	1 / 5	0.1334
Inorganic	Cobalt	mg/kg		0.04018	0.04018	0.09174	5 / 5	0.06307
Inorganic	Copper	mg/kg		0.3878	0.3878	0.5706	5 / 5	0.4958
Inorganic	Iron	mg/kg		23.07	23.07	38.67	5 / 5	32.14
Inorganic	Lead	mg/kg		0.09418	0.09418	0.1863	5 / 5	0.1358
Inorganic	Magnesium	mg/kg		390.6	390.6	611.6	5 / 5	515.1
Inorganic	Manganese	mg/kg		7.146	7.146	15.76	5 / 5	10.48
Inorganic	Mercury	mg/kg		0.02465	0.02465	0.04305	5 / 5	0.03491
Inorganic	Molybdenum	mg/kg	0.03324 / 0.03731	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.09141 / 0.1005	ND	0.09695	0.09695	1 / 5	0.09695
Inorganic	Potassium	mg/kg		1902	1902	2324	5 / 5	2092
Inorganic	Selenium	mg/kg		0.554	0.554	0.7291	5 / 5	0.6351
Inorganic	Silver	mg/kg	0.00274 / 0.00306	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		1432	1432	1639	5 / 5	1552
Inorganic	Strontium	mg/kg		12.85	12.85	20.94	5 / 5	16.97
Inorganic	Thallium	mg/kg	0.01302 / 0.02402	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg		0.07479	0.07479	0.1903	5 / 5	0.1273
Inorganic	Zinc	mg/kg		22.22	22.22	47.42	5 / 5	34.64
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.1 / 0.1	ND	0.184	0.184	1 / 2	0.184
Organic-PCBs	PCB-1260	mg/kg		0.251	0.251	0.468	2 / 2	0.3595

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-32: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0119	0.0119	0.024	2 / 2	0.01795
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0078	0.0078	0.0122	2 / 2	0.01
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0073	0.0073	0.0124	2 / 2	0.00985
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0081	0.0081	1 / 2	0.0081
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		5	5	9.7	7 / 7	7.071
Physical Properties	% Moisture	%		68.3	68.3	72.3	7 / 7	70.63
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	0.009	0.009	1 / 2	0.009
Speciation	Arsenic (from speciation lab)	mg/kg	0.103 / 0.122	ND	0.175	0.175	1 / 2	0.175
Speciation	Arsenite	mg/kg		0.006	0.006	0.024	2 / 2	0.015
Speciation	Inorganic Arsenic	mg/kg		0.007	0.007	0.032	2 / 2	0.0195
Speciation	Organic Arsenic	mg/kg	0.103 / 0.122	ND	0.143	0.143	1 / 2	0.143

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-33: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.555 / 4.008	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.0128 / 0.01445	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.02607 / 0.02688	ND	0.04161	0.08058	4 / 5	0.05762
Inorganic	Barium	mg/kg	0.04029 / 0.04599	ND	0.06272	0.1724	2 / 5	0.1176
Inorganic	Beryllium	mg/kg	0.02607 / 0.03066	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.3757 / 0.4199	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.00687 / 0.00767	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		289.1	289.1	1757	5 / 5	719.8
Inorganic	Chromium	mg/kg	0.1138 / 0.127	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.01256 / 0.01392	ND	0.01621	0.01621	1 / 5	0.01621
Inorganic	Copper	mg/kg		0.2652	0.2652	10.3	5 / 5	3.016
Inorganic	Iron	mg/kg	10.69 / 12.09	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.0237 / 0.02652	ND	0.1862	0.448	2 / 5	0.3171
Inorganic	Magnesium	mg/kg		232.1	232.1	239.4	5 / 5	235.9
Inorganic	Manganese	mg/kg		0.2652	0.2652	1.039	5 / 5	0.5049
Inorganic	Mercury	mg/kg		0.04266	0.04266	0.09198	5 / 5	0.06958
Inorganic	Molybdenum	mg/kg	0.03081 / 0.03536	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.08769 / 0.09724	ND	0.2059	0.4928	2 / 5	0.3494
Inorganic	Potassium	mg/kg		3514	3514	4148	5 / 5	3847
Inorganic	Selenium	mg/kg		0.2873	0.2873	0.438	5 / 5	0.3675
Inorganic	Silver	mg/kg	0.00261 / 0.00291	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		287.3	287.3	431	5 / 5	396.8
Inorganic	Strontium	mg/kg		0.184	0.184	1.238	5 / 5	0.525
Inorganic	Thallium	mg/kg	0.01232 / 0.0138	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.04029 / 0.04599	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		6.778	6.778	12.86	5 / 5	8.848
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.0557	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.0557	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.0557	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.0557	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.0557	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.0762	0.0762	0.121	2 / 2	0.0986
Organic-PCBs	PCB-1260	mg/kg		0.229	0.229	0.309	2 / 2	0.269

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-33: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0086	0.0086	0.0154	2 / 2	0.012
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0064	0.0064	0.0093	2 / 2	0.00785
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0054	0.0054	0.009	2 / 2	0.0072
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.0056	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0057	0.0057	1 / 2	0.0057
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0028	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.0279	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.0836	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		3	3	5.6	7 / 7	4.143
Physical Properties	% Moisture	%		76.3	76.3	78.1	7 / 7	77.44
Speciation	Arsenate	mg/kg	0.003 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.138 / 0.15	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0004 / 0.002	ND	0.009	0.009	1 / 2	0.009
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.004	ND	0.009	0.009	1 / 2	0.009
Speciation	Organic Arsenic	mg/kg	0.138 / 0.15	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-34: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.576 / 4.112	ND	5.568	6.422	4 / 7	5.921
Inorganic	Antimony	mg/kg	0.01305 / 0.01495	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.04182	0.04182	0.1383	7 / 7	0.07185
Inorganic	Barium	mg/kg		0.6358	0.6358	2.534	7 / 7	1.613
Inorganic	Beryllium	mg/kg	0.0261 / 0.02952	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.3654 / 0.4335	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg		0.01504	0.01504	0.02679	7 / 7	0.02181
Inorganic	Calcium	mg/kg		13265	13265	40836	7 / 7	21197
Inorganic	Chromium	mg/kg	0.1148 / 0.1308	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg		0.05658	0.05658	0.1511	7 / 7	0.09763
Inorganic	Copper	mg/kg		0.5415	0.5415	14.48	7 / 7	3.037
Inorganic	Iron	mg/kg		23.74	23.74	75.28	7 / 7	34.64
Inorganic	Lead	mg/kg		0.1382	0.1382	0.6647	7 / 7	0.2742
Inorganic	Magnesium	mg/kg		338.1	338.1	789.7	7 / 7	485.9
Inorganic	Manganese	mg/kg		6.242	6.242	11.67	7 / 7	9.589
Inorganic	Mercury	mg/kg		0.02166	0.02166	0.1427	7 / 7	0.05832
Inorganic	Molybdenum	mg/kg	0.03132 / 0.03738	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.08874 / 0.1015	ND	0.1008	4.191	3 / 7	1.513
Inorganic	Potassium	mg/kg		1844	1844	2283	7 / 7	2021
Inorganic	Selenium	mg/kg		0.3135	0.3135	0.6048	7 / 7	0.4572
Inorganic	Silver	mg/kg	0.00258 / 0.00295	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		1212	1212	2241	7 / 7	1558
Inorganic	Strontium	mg/kg		8.757	8.757	33.46	7 / 7	16.35
Inorganic	Thallium	mg/kg	0.01227 / 0.01416	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.04176 / 0.04624	ND	0.048	0.261	6 / 7	0.1175
Inorganic	Zinc	mg/kg		24.96	24.96	39.36	7 / 7	31.64
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.176	0.176	0.197	2 / 2	0.1865
Organic-PCBs	PCB-1260	mg/kg		0.432	0.432	0.441	2 / 2	0.4365

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-34: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0148	0.0148	0.0319	2 / 2	0.02335
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0117	0.0117	0.0144	2 / 2	0.01305
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0125	0.0125	0.015	2 / 2	0.01375
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg		0.0074	0.0074	0.0078	2 / 2	0.0076
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.3	1.3	8.9	9 / 9	5.556
Physical Properties	% Moisture	%		68	68	75.4	9 / 9	71.84
Speciation	Arsenate	mg/kg	0.003 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.108 / 0.132	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.002 / 0.002	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.108 / 0.132	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-35: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.737 / 4.099	ND	ND	ND	0 / 7	0
Inorganic	Antimony	mg/kg	0.01363 / 0.0149	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg	0.02585 / 0.02898	ND	0.03859	0.05264	4 / 7	0.04253
Inorganic	Barium	mg/kg	0.0423 / 0.0454	ND	0.04809	0.3525	5 / 7	0.1831
Inorganic	Beryllium	mg/kg	0.0282 / 0.03105	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.376 / 0.4347	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.00705 / 0.00787	ND	ND	ND	0 / 7	0
Inorganic	Calcium	mg/kg		148.9	148.9	7661	7 / 7	2138
Inorganic	Chromium	mg/kg	0.1175 / 0.1304	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg	0.01316 / 0.01449	ND	0.01316	0.03206	5 / 7	0.02115
Inorganic	Copper	mg/kg		0.282	0.282	3.737	7 / 7	0.8407
Inorganic	Iron	mg/kg	11.26 / 12.38	ND	ND	ND	0 / 7	0
Inorganic	Lead	mg/kg	0.02585 / 0.02898	ND	0.1786	0.1786	1 / 7	0.1786
Inorganic	Magnesium	mg/kg		210.2	210.2	347.8	7 / 7	252
Inorganic	Manganese	mg/kg		0.193	0.193	2.961	7 / 7	1.018
Inorganic	Mercury	mg/kg		0.04512	0.04512	0.2316	7 / 7	0.09601
Inorganic	Molybdenum	mg/kg	0.0329 / 0.03572	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.09165 / 0.09936	ND	0.1603	0.4053	3 / 7	0.259
Inorganic	Potassium	mg/kg		3049	3049	3685	7 / 7	3444
Inorganic	Selenium	mg/kg		0.1626	0.1626	0.376	7 / 7	0.2445
Inorganic	Silver	mg/kg	0.0027 / 0.00298	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		370.8	370.8	557.8	7 / 7	445
Inorganic	Strontium	mg/kg		0.1044	0.1044	4.536	7 / 7	1.551
Inorganic	Thallium	mg/kg	0.01293 / 0.01408	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.0423 / 0.04761	ND	ND	ND	0 / 7	0
Inorganic	Zinc	mg/kg		5.493	5.493	13.35	7 / 7	8.094
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.13	0.13	0.189	2 / 2	0.1595
Organic-PCBs	PCB-1260	mg/kg		0.296	0.296	0.441	2 / 2	0.3685

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-35: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0105	0.0105	0.0288	2 / 2	0.01965
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0087	0.0087	0.0128	2 / 2	0.01075
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0104	0.0104	0.014	2 / 2	0.0122
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg		0.0043	0.0043	0.0084	2 / 2	0.00635
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg		0.0027	0.0027	0.0035	2 / 2	0.0031
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1	1	5.1	9 / 9	3.511
Physical Properties	% Moisture	%		76.5	76.5	81.2	9 / 9	78.57
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.105 / 0.125	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0007 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.105 / 0.125	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-36: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.59 / 4.153	ND	3.775	4.726	2 / 6	4.251
Inorganic	Antimony	mg/kg	0.01305 / 0.01485	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02475 / 0.02475	ND	0.0544	0.1045	5 / 6	0.08526
Inorganic	Barium	mg/kg		0.9632	0.9632	1.692	6 / 6	1.274
Inorganic	Beryllium	mg/kg	0.02666 / 0.03102	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3808 / 0.44	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.00818	0.00818	0.04624	6 / 6	0.02731
Inorganic	Calcium	mg/kg		13244	13244	29610	6 / 6	19780
Inorganic	Chromium	mg/kg	0.1142 / 0.132	ND	0.1656	0.1656	1 / 6	0.1656
Inorganic	Cobalt	mg/kg		0.02925	0.02925	0.09632	6 / 6	0.07271
Inorganic	Copper	mg/kg		0.3384	0.3384	4.733	6 / 6	1.707
Inorganic	Iron	mg/kg		27.5	27.5	143.3	6 / 6	70.38
Inorganic	Lead	mg/kg		0.06204	0.06204	0.544	6 / 6	0.2018
Inorganic	Magnesium	mg/kg		373.5	373.5	595	6 / 6	450.8
Inorganic	Manganese	mg/kg		4.478	4.478	12.45	6 / 6	9.122
Inorganic	Mercury	mg/kg		0.02651	0.02651	0.2094	6 / 6	0.08158
Inorganic	Molybdenum	mg/kg	0.0315 / 0.03666	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08704 / 0.1018	ND	0.2017	1.659	4 / 6	0.7293
Inorganic	Potassium	mg/kg		2065	2065	2269	6 / 6	2172
Inorganic	Selenium	mg/kg		0.405	0.405	0.7525	6 / 6	0.5657
Inorganic	Silver	mg/kg	0.00261 / 0.00303	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1171	1171	1760	6 / 6	1558
Inorganic	Strontium	mg/kg		10.84	10.84	23.97	6 / 6	15.3
Inorganic	Thallium	mg/kg	0.01238 / 0.0143	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0405 / 0.04675	ND	0.081	0.2808	5 / 6	0.1751
Inorganic	Zinc	mg/kg		24.3	24.3	36.72	6 / 6	31.68
Organic-PCBs	PCB-1016	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.2 / 0.5	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg		0.764	0.764	1.65	2 / 2	1.207

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-36: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 3.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0257	0.0257	0.0725	2 / 2	0.0491
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0193	0.0193	0.0371	2 / 2	0.0282
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0055	0.0055	0.0088	2 / 2	0.00715
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.3	1.3	6.7	8 / 8	3.713
Physical Properties	% Moisture	%		68.8	68.8	78.1	8 / 8	73.13
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.132 / 0.144	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0006 / 0.003	ND	0.007	0.007	1 / 2	0.007
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	0.008	0.008	1 / 2	0.008
Speciation	Organic Arsenic	mg/kg	0.132 / 0.144	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-37: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.507 / 4.03	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01269 / 0.01452	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02505 / 0.02865	ND	0.0357	0.0399	2 / 6	0.0378
Inorganic	Barium	mg/kg	0.0399 / 0.04525	ND	0.04175	0.111	4 / 6	0.06363
Inorganic	Beryllium	mg/kg	0.02505 / 0.03056	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3674 / 0.4202	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00668 / 0.00764	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		101.9	101.9	2257	6 / 6	727.3
Inorganic	Chromium	mg/kg	0.1102 / 0.128	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01236 / 0.01413	ND	0.01365	0.01388	2 / 6	0.01377
Inorganic	Copper	mg/kg		0.2101	0.2101	2.898	6 / 6	0.7026
Inorganic	Iron	mg/kg	10.54 / 12.13	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02505 / 0.02865	ND	0.02775	0.1239	2 / 6	0.07583
Inorganic	Magnesium	mg/kg		205.4	205.4	244.2	6 / 6	227.7
Inorganic	Manganese	mg/kg		0.1659	0.1659	1.147	6 / 6	0.5056
Inorganic	Mercury	mg/kg		0.04887	0.04887	0.3885	6 / 6	0.148
Inorganic	Molybdenum	mg/kg	0.03006 / 0.03629	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08517 / 0.09741	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3490	3490	4158	6 / 6	3807
Inorganic	Selenium	mg/kg		0.2505	0.2505	0.3801	6 / 6	0.3236
Inorganic	Silver	mg/kg	0.00251 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		426.3	426.3	748.2	6 / 6	538.4
Inorganic	Strontium	mg/kg		0.0777	0.0777	1.425	6 / 6	0.5154
Inorganic	Thallium	mg/kg	0.01202 / 0.01394	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0399 / 0.04584	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.376	5.376	9.898	6 / 6	7.263
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.1 / 0.2	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-37: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 3.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-PCBs	PCB-1260	mg/kg		0.386	0.386	0.757	2 / 2	0.5715
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.012	0.012	0.0338	2 / 2	0.0229
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0104	0.0104	0.0164	2 / 2	0.0134
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0046	0.0046	1 / 2	0.0046
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.57	0.57	3.3	8 / 8	1.659
Physical Properties	% Moisture	%		79	79	83.3	8 / 8	81.29
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.152 / 0.176	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0007 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.152 / 0.176	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-38: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.901 / 4.124	ND	4.86	8.362	4 / 6	5.902
Inorganic	Antimony	mg/kg	0.01397 / 0.01505	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.07826	0.07826	0.1775	6 / 6	0.1141
Inorganic	Barium	mg/kg		1.226	1.226	2.153	6 / 6	1.607
Inorganic	Beryllium	mg/kg	0.0285 / 0.03132	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.399 / 0.4368	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.01294	0.01294	0.03132	6 / 6	0.02152
Inorganic	Calcium	mg/kg		15134	15134	34615	6 / 6	23865
Inorganic	Chromium	mg/kg	0.1226 / 0.132	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.02537	0.02537	0.1076	6 / 6	0.04618
Inorganic	Copper	mg/kg		0.289	0.289	3.578	6 / 6	1.049
Inorganic	Iron	mg/kg		18.5	18.5	92	6 / 6	41.3
Inorganic	Lead	mg/kg		0.0855	0.0855	0.2959	6 / 6	0.1776
Inorganic	Magnesium	mg/kg		390.5	390.5	698.9	6 / 6	531.8
Inorganic	Manganese	mg/kg		5.159	5.159	15.97	6 / 6	10.2
Inorganic	Mercury	mg/kg		0.0286	0.0286	0.0513	6 / 6	0.03874
Inorganic	Molybdenum	mg/kg	0.0342 / 0.03744	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09405 / 0.102	ND	0.4842	0.4842	1 / 6	0.4842
Inorganic	Potassium	mg/kg		1674	1674	2237	6 / 6	2005
Inorganic	Selenium	mg/kg		0.3612	0.3612	0.63	6 / 6	0.5373
Inorganic	Silver	mg/kg	0.00269 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1283	1283	1841	6 / 6	1584
Inorganic	Strontium	mg/kg		10.6	10.6	23.18	6 / 6	17.55
Inorganic	Thallium	mg/kg	0.0134 / 0.01436	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.0969	0.0969	0.3228	6 / 6	0.1782
Inorganic	Zinc	mg/kg		29.56	29.56	39.94	6 / 6	33.28
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.159	0.159	0.201	2 / 2	0.18
Organic-PCBs	PCB-1260	mg/kg		0.35	0.35	0.416	2 / 2	0.383

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-38: TVA SAP Sampling, Spring 2010 - Channel Catfish Carcass at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0233	0.0233	0.0264	2 / 2	0.02485
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0103	0.0103	0.0116	2 / 2	0.01095
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0129	0.0129	0.0133	2 / 2	0.0131
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg		0.0071	0.0071	0.0072	2 / 2	0.00715
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	0.003	0.003	1 / 2	0.003
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		2.5	2.5	8.7	8 / 8	5.938
Physical Properties	% Moisture	%		68.8	68.8	73.9	8 / 8	71.08
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	0.01	0.01	1 / 2	0.01
Speciation	Arsenic (from speciation lab)	mg/kg	0.17 / 0.178	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0008 / 0.003	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	0.011	0.011	1 / 2	0.011
Speciation	Organic Arsenic	mg/kg	0.17 / 0.178	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-39: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.786 / 4.121	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01366 / 0.01487	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02628 / 0.02926	ND	0.02688	0.08492	4 / 6	0.05362
Inorganic	Barium	mg/kg	0.04256 / 0.04824	ND	0.05694	0.07334	3 / 6	0.06433
Inorganic	Beryllium	mg/kg	0.02688 / 0.03015	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3808 / 0.4221	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00717 / 0.00784	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		142.1	142.1	920.6	6 / 6	507.1
Inorganic	Chromium	mg/kg	0.1187 / 0.1307	ND	0.1994	0.1994	1 / 6	0.1994
Inorganic	Cobalt	mg/kg	0.01322 / 0.01447	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2508	0.2508	7.102	6 / 6	1.918
Inorganic	Iron	mg/kg	11.38 / 12.42	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02616 / 0.02814	ND	0.1139	0.3088	2 / 6	0.2114
Inorganic	Magnesium	mg/kg		219.1	219.1	251.9	6 / 6	235.4
Inorganic	Manganese	mg/kg		0.201	0.201	0.6104	6 / 6	0.429
Inorganic	Mercury	mg/kg		0.0603	0.0603	0.0965	6 / 6	0.07482
Inorganic	Molybdenum	mg/kg	0.03285 / 0.03618	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09184 / 0.1005	ND	0.166	0.4818	3 / 6	0.2727
Inorganic	Potassium	mg/kg		3357	3357	4222	6 / 6	3700
Inorganic	Selenium	mg/kg		0.2509	0.2509	0.4928	6 / 6	0.3817
Inorganic	Silver	mg/kg	0.00269 / 0.00302	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		349.4	349.4	443.9	6 / 6	409
Inorganic	Strontium	mg/kg		0.1199	0.1199	0.7334	6 / 6	0.3734
Inorganic	Thallium	mg/kg	0.01299 / 0.01427	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04256 / 0.04623	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.385	5.385	12.08	6 / 6	7.501
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.0996	0.0996	0.109	2 / 2	0.1043
Organic-PCBs	PCB-1260	mg/kg		0.216	0.216	0.227	2 / 2	0.2215

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-39: TVA SAP Sampling, Spring 2010 - Channel Catfish Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0134	0.0134	0.0144	2 / 2	0.0139
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.006	0.006	0.0064	2 / 2	0.0062
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0073	0.0073	0.0089	2 / 2	0.0081
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg		0.0027	0.0027	0.0031	2 / 2	0.0029
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.5	1.5	3.4	8 / 8	2.55
Physical Properties	% Moisture	%		77.6	77.6	80.7	8 / 8	79.21
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.176 / 0.182	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0009 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.176 / 0.182	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-40: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1100	1100	1950	3 / 3	1550
Inorganic	Antimony	mg/kg		0.022	0.022	0.058	3 / 3	0.03467
Inorganic	Arsenic	mg/kg		0.78	0.78	1.6	3 / 3	1.193
Inorganic	Barium	mg/kg		9.8	9.8	22.5	3 / 3	15.03
Inorganic	Beryllium	mg/kg		0.057	0.057	0.1	3 / 3	0.076
Inorganic	Boron	mg/kg		0.42	0.42	1	3 / 3	0.6333
Inorganic	Cadmium	mg/kg		0.07	0.07	0.099	3 / 3	0.08667
Inorganic	Calcium	mg/kg		357	357	1030	3 / 3	586.3
Inorganic	Chromium	mg/kg		1.5	1.5	2.5	3 / 3	1.933
Inorganic	Cobalt	mg/kg		0.95	0.95	1.4	3 / 3	1.103
Inorganic	Copper	mg/kg		3.4	3.4	4.6	3 / 3	4.067
Inorganic	Iron	mg/kg		1730	1730	3050	3 / 3	2363
Inorganic	Lead	mg/kg		1.3	1.3	2.8	3 / 3	1.867
Inorganic	Magnesium	mg/kg		323	323	483	3 / 3	390.7
Inorganic	Manganese	mg/kg		139	139	220	3 / 3	175.3
Inorganic	Mercury	mg/kg		0.023	0.023	0.05	3 / 3	0.035
Inorganic	Molybdenum	mg/kg	0.031 / 0.2	ND	0.45	0.45	1 / 3	0.45
Inorganic	Nickel	mg/kg		1.8	1.8	2.8	3 / 3	2.167
Inorganic	Potassium	mg/kg		2240	2240	2490	3 / 3	2390
Inorganic	Selenium	mg/kg		1.2	1.2	1.5	3 / 3	1.333
Inorganic	Silver	mg/kg		0.045	0.045	0.056	3 / 3	0.05
Inorganic	Sodium	mg/kg		969	969	1020	3 / 3	1003
Inorganic	Strontium	mg/kg		1	1	2.1	3 / 3	1.433
Inorganic	Thallium	mg/kg	0.056 / 0.067	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		1.7	1.7	3.5	3 / 3	2.5
Inorganic	Zinc	mg/kg		30.3	30.3	38	3 / 3	33.5
Physical Properties	% Lipids	%		3.6	3.6	5.4	3 / 3	4.367
Physical Properties	% Moisture	%		56.5	56.5	71.7	3 / 3	65.7

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-41: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		161	161	423.6	3 / 3	285.7
Inorganic	Antimony	mg/kg	0.01414 / 0.01439	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2616	0.2616	0.301	3 / 3	0.2863
Inorganic	Barium	mg/kg		4.355	4.355	7.375	3 / 3	5.807
Inorganic	Beryllium	mg/kg	0.02795 / 0.02964	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	1.892 / 1.918	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.01505 / 0.02365	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		9530	9530	11205	3 / 3	10208
Inorganic	Chromium	mg/kg		0.5928	0.5928	1.419	3 / 3	0.8959
Inorganic	Cobalt	mg/kg	0.01376 / 0.2616	ND	0.4515	0.4515	1 / 3	0.4515
Inorganic	Copper	mg/kg		1.14	1.14	1.484	3 / 3	1.303
Inorganic	Iron	mg/kg		271.3	271.3	636.4	3 / 3	432.6
Inorganic	Lead	mg/kg	0.02795 / 0.2029	ND	0.3488	0.516	2 / 3	0.4324
Inorganic	Magnesium	mg/kg		364.8	364.8	389.2	3 / 3	380
Inorganic	Manganese	mg/kg		46.74	46.74	95.25	3 / 3	65.71
Inorganic	Mercury	mg/kg		0.01368	0.01368	0.01656	3 / 3	0.01473
Inorganic	Molybdenum	mg/kg	0.0342 / 0.04796	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.456	0.456	0.8815	3 / 3	0.642
Inorganic	Potassium	mg/kg		2817	2817	3124	3 / 3	2961
Inorganic	Selenium	mg/kg		0.4945	0.4945	0.5668	3 / 3	0.521
Inorganic	Silver	mg/kg	0.00775 / 0.01978	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1176	1176	1310	3 / 3	1262
Inorganic	Strontium	mg/kg		5.268	5.268	6.224	3 / 3	5.858
Inorganic	Thallium	mg/kg	0.01345 / 0.01439	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.04515 / 0.1961	ND	0.3924	0.645	2 / 3	0.5187
Inorganic	Zinc	mg/kg		15.24	15.24	16.55	3 / 3	16.05
Physical Properties	% Lipids	%		1.1	1.1	2.4	3 / 3	1.933
Physical Properties	% Moisture	%		77.2	77.2	78.5	3 / 3	77.97

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-42: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		9.968	9.968	11.54	3 / 3	10.98
Inorganic	Antimony	mg/kg	0.0135 / 0.01463	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2138	0.2138	0.2892	3 / 3	0.2527
Inorganic	Barium	mg/kg		2.948	2.948	3.543	3 / 3	3.285
Inorganic	Beryllium	mg/kg	0.02651 / 0.03016	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	1.808 / 1.958	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00723 / 0.00766	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		12749	12749	14291	3 / 3	13408
Inorganic	Chromium	mg/kg	0.1181 / 0.1283	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.04275 / 0.0482	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg		0.6975	0.6975	0.9881	3 / 3	0.8016
Inorganic	Iron	mg/kg		24.3	24.3	27.96	3 / 3	26.24
Inorganic	Lead	mg/kg	0.0464 / 0.0482	ND	ND	ND	0 / 3	0
Inorganic	Magnesium	mg/kg		398.3	398.3	413	3 / 3	403.8
Inorganic	Manganese	mg/kg		29.93	29.93	34.7	3 / 3	32.76
Inorganic	Mercury	mg/kg	0.01085 / 0.0116	ND	0.01283	0.01283	1 / 3	0.01283
Inorganic	Molybdenum	mg/kg	0.03374 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.1253	0.1253	0.1665	3 / 3	0.1398
Inorganic	Potassium	mg/kg		3105	3105	3178	3 / 3	3147
Inorganic	Selenium	mg/kg		0.3944	0.3944	0.4338	3 / 3	0.4111
Inorganic	Silver	mg/kg	0.00265 / 0.00302	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1147	1147	1179	3 / 3	1162
Inorganic	Strontium	mg/kg		7.448	7.448	9.419	3 / 3	8.522
Inorganic	Thallium	mg/kg	0.01392 / 0.01759	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.04338 / 0.04725	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		15.38	15.38	17.18	3 / 3	16.23
Physical Properties	% Lipids	%		2.3	2.3	3.4	3 / 3	2.667
Physical Properties	% Moisture	%		75.9	75.9	77.5	3 / 3	76.73

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-43: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1670	1670	2270	3 / 3	2067
Inorganic	Antimony	mg/kg		0.032	0.032	0.039	3 / 3	0.03533
Inorganic	Arsenic	mg/kg		1.3	1.3	1.5	3 / 3	1.367
Inorganic	Barium	mg/kg		22.7	22.7	32.6	3 / 3	27.73
Inorganic	Beryllium	mg/kg		0.098	0.098	0.13	3 / 3	0.1193
Inorganic	Boron	mg/kg		0.94	0.94	1.1	3 / 3	1.047
Inorganic	Cadmium	mg/kg		0.062	0.062	0.076	3 / 3	0.07
Inorganic	Calcium	mg/kg		707	707	1010	3 / 3	859.7
Inorganic	Chromium	mg/kg		2.7	2.7	3.3	3 / 3	3.1
Inorganic	Cobalt	mg/kg		1.4	1.4	1.7	3 / 3	1.567
Inorganic	Copper	mg/kg		3.3	3.3	3.8	3 / 3	3.5
Inorganic	Iron	mg/kg		2660	2660	3390	3 / 3	3073
Inorganic	Lead	mg/kg		3.4	3.4	4.3	3 / 3	3.767
Inorganic	Magnesium	mg/kg		390	390	475	3 / 3	438
Inorganic	Manganese	mg/kg		121	121	151	3 / 3	132
Inorganic	Mercury	mg/kg		0.035	0.035	0.04	3 / 3	0.037
Inorganic	Molybdenum	mg/kg		0.15	0.15	0.18	3 / 3	0.1633
Inorganic	Nickel	mg/kg		2.2	2.2	2.8	3 / 3	2.567
Inorganic	Potassium	mg/kg		2050	2050	2250	3 / 3	2153
Inorganic	Selenium	mg/kg		1.1	1.1	1.2	3 / 3	1.167
Inorganic	Silver	mg/kg		0.012	0.012	0.016	3 / 3	0.01367
Inorganic	Sodium	mg/kg		1120	1120	1190	3 / 3	1167
Inorganic	Strontium	mg/kg		2.2	2.2	2.6	3 / 3	2.333
Inorganic	Thallium	mg/kg	0.033 / 0.052	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		3.2	3.2	4.1	3 / 3	3.667
Inorganic	Zinc	mg/kg		29.3	29.3	32.1	3 / 3	31.1
Physical Properties	% Lipids	%		1.9	1.9	2.4	3 / 3	2.2
Physical Properties	% Moisture	%		55.4	55.4	66.5	3 / 3	60.8

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-44: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		327	327	429	3 / 3	370.7
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.29	0.29	0.36	3 / 3	0.3233
Inorganic	Barium	mg/kg		7.1	7.1	10.7	3 / 3	9.167
Inorganic	Beryllium	mg/kg	0.03 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.41 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.016	0.016	0.073	3 / 3	0.03533
Inorganic	Calcium	mg/kg		8940	8940	13300	3 / 3	10980
Inorganic	Chromium	mg/kg		1.1	1.1	1.6	3 / 3	1.367
Inorganic	Cobalt	mg/kg		0.29	0.29	0.38	3 / 3	0.3333
Inorganic	Copper	mg/kg		1.2	1.2	9.4	3 / 3	4.533
Inorganic	Iron	mg/kg		543	543	676	3 / 3	595
Inorganic	Lead	mg/kg		0.57	0.57	0.93	3 / 3	0.7533
Inorganic	Magnesium	mg/kg		356	356	409	3 / 3	378
Inorganic	Manganese	mg/kg		43.9	43.9	47.5	3 / 3	45.5
Inorganic	Mercury	mg/kg		0.013	0.013	0.02	3 / 3	0.01567
Inorganic	Molybdenum	mg/kg	0.054 / 0.068	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.54	0.54	8	3 / 3	3.88
Inorganic	Potassium	mg/kg		2470	2470	2640	3 / 3	2573
Inorganic	Selenium	mg/kg		0.47	0.47	0.51	3 / 3	0.4867
Inorganic	Silver	mg/kg		0.0029	0.0029	0.0039	3 / 3	0.003533
Inorganic	Sodium	mg/kg		979	979	1020	3 / 3	999.7
Inorganic	Strontium	mg/kg		5.9	5.9	11.5	3 / 3	8.267
Inorganic	Thallium	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.76	0.76	0.96	3 / 3	0.8367
Inorganic	Zinc	mg/kg		16.2	16.2	22.8	3 / 3	19
Physical Properties	% Lipids	%		1.2	1.2	2.9	3 / 3	2.3
Physical Properties	% Moisture	%		74.9	74.9	76.7	3 / 3	75.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-45: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		34.2	34.2	127	3 / 3	84.27
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.16	0.16	0.19	3 / 3	0.1767
Inorganic	Barium	mg/kg		3	3	5.1	3 / 3	4.133
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.0078	ND	0.0085	0.0098	2 / 3	0.00915
Inorganic	Calcium	mg/kg		9600	9600	13300	3 / 3	11400
Inorganic	Chromium	mg/kg		0.18	0.18	0.48	3 / 3	0.31
Inorganic	Cobalt	mg/kg		0.066	0.066	0.13	3 / 3	0.102
Inorganic	Copper	mg/kg		0.62	0.62	0.93	3 / 3	0.7767
Inorganic	Iron	mg/kg		82.3	82.3	212	3 / 3	154.1
Inorganic	Lead	mg/kg		0.086	0.086	0.23	3 / 3	0.1753
Inorganic	Magnesium	mg/kg		342	342	374	3 / 3	360.3
Inorganic	Manganese	mg/kg		24.8	24.8	37.1	3 / 3	30.33
Inorganic	Mercury	mg/kg		0.012	0.012	0.017	3 / 3	0.015
Inorganic	Molybdenum	mg/kg	0.034 / 0.039	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.13	0.13	0.25	3 / 3	0.1933
Inorganic	Potassium	mg/kg		2680	2680	2860	3 / 3	2790
Inorganic	Selenium	mg/kg		0.42	0.42	0.44	3 / 3	0.43
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		864	864	1080	3 / 3	972.3
Inorganic	Strontium	mg/kg		6.8	6.8	9.5	3 / 3	7.9
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.1	0.1	0.3	3 / 3	0.2
Inorganic	Zinc	mg/kg		13.5	13.5	18	3 / 3	15.13
Physical Properties	% Lipids	%		2.8	2.8	4.2	3 / 3	3.7
Physical Properties	% Moisture	%		75.9	75.9	77.1	3 / 3	76.3

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-46: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1580	1580	2630	3 / 3	2223
Inorganic	Antimony	mg/kg		0.034	0.034	0.039	3 / 3	0.036
Inorganic	Arsenic	mg/kg		1.4	1.4	1.7	3 / 3	1.533
Inorganic	Barium	mg/kg		12.9	12.9	22	3 / 3	18.6
Inorganic	Beryllium	mg/kg		0.099	0.099	0.15	3 / 3	0.1297
Inorganic	Boron	mg/kg	0.78 / 0.82	ND	0.84	0.91	2 / 3	0.875
Inorganic	Cadmium	mg/kg		0.091	0.091	0.11	3 / 3	0.1037
Inorganic	Calcium	mg/kg		520	520	873	3 / 3	659.7
Inorganic	Chromium	mg/kg		2.4	2.4	4.2	3 / 3	3.433
Inorganic	Cobalt	mg/kg		1.5	1.5	2.1	3 / 3	1.9
Inorganic	Copper	mg/kg		3.1	3.1	4.1	3 / 3	3.767
Inorganic	Iron	mg/kg		2120	2120	3550	3 / 3	3023
Inorganic	Lead	mg/kg		2.4	2.4	2.9	3 / 3	2.667
Inorganic	Magnesium	mg/kg		447	447	500	3 / 3	478.7
Inorganic	Manganese	mg/kg		148	148	224	3 / 3	190.7
Inorganic	Mercury	mg/kg		0.029	0.029	0.038	3 / 3	0.03333
Inorganic	Molybdenum	mg/kg		0.17	0.17	0.18	3 / 3	0.1767
Inorganic	Nickel	mg/kg		2.3	2.3	3.5	3 / 3	3.033
Inorganic	Potassium	mg/kg		2640	2640	2810	3 / 3	2733
Inorganic	Selenium	mg/kg		1.1	1.1	1.2	3 / 3	1.167
Inorganic	Silver	mg/kg		0.017	0.017	0.024	3 / 3	0.01967
Inorganic	Sodium	mg/kg		928	928	1170	3 / 3	1043
Inorganic	Strontium	mg/kg		1.7	1.7	2.7	3 / 3	2.233
Inorganic	Thallium	mg/kg	0.077 / 0.094	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		2.7	2.7	4	3 / 3	3.533
Inorganic	Zinc	mg/kg		30.2	30.2	41.1	3 / 3	34.27
Physical Properties	% Lipids	%		2.6	2.6	5.4	3 / 3	3.7
Physical Properties	% Moisture	%		63	63	74.4	3 / 3	70.17

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-47: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		88.62	88.62	127.2	3 / 3	112.8
Inorganic	Antimony	mg/kg	0.01237 / 0.0138	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2519	0.2519	0.357	3 / 3	0.2992
Inorganic	Barium	mg/kg		3.308	3.308	3.824	3 / 3	3.623
Inorganic	Beryllium	mg/kg	0.02442 / 0.05038	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.3552 / 0.7099	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01021	0.01021	0.01404	3 / 3	0.0119
Inorganic	Calcium	mg/kg		9657	9657	11267	3 / 3	10719
Inorganic	Chromium	mg/kg		0.3435	0.3435	0.444	3 / 3	0.4053
Inorganic	Cobalt	mg/kg		0.1122	0.1122	0.1443	3 / 3	0.1307
Inorganic	Copper	mg/kg		0.9324	0.9324	0.9996	3 / 3	0.9722
Inorganic	Iron	mg/kg		110.6	110.6	160.2	3 / 3	143.1
Inorganic	Lead	mg/kg		0.1511	0.1511	0.169	3 / 3	0.1592
Inorganic	Magnesium	mg/kg		346.3	346.3	391.6	3 / 3	372.9
Inorganic	Manganese	mg/kg		33.3	33.3	35.04	3 / 3	34.44
Inorganic	Mercury	mg/kg		0.01282	0.01282	0.01404	3 / 3	0.01332
Inorganic	Molybdenum	mg/kg	0.02977 / 0.03332	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.08436 / 0.1695	ND	0.1999	0.222	2 / 3	0.211
Inorganic	Potassium	mg/kg		2819	2819	3114	3 / 3	2985
Inorganic	Selenium	mg/kg		0.3996	0.3996	0.476	3 / 3	0.4445
Inorganic	Silver	mg/kg	0.00244 / 0.00286	ND	0.00275	0.00275	1 / 3	0.002748
Inorganic	Sodium	mg/kg		899.1	899.1	1056	3 / 3	972.2
Inorganic	Strontium	mg/kg		6.771	6.771	7.649	3 / 3	7.258
Inorganic	Thallium	mg/kg	0.01177 / 0.02071	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.158	0.158	0.238	3 / 3	0.206
Inorganic	Zinc	mg/kg		16.41	16.41	17.8	3 / 3	17.07
Physical Properties	% Lipids	%		2.1	2.1	3.3	3 / 3	2.833
Physical Properties	% Moisture	%		76.2	76.2	77.8	3 / 3	77.03

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-48: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		15.52	15.52	38.45	3 / 3	25.24
Inorganic	Antimony	mg/kg	0.01258 / 0.01491	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.1561	0.1561	0.2294	3 / 3	0.2015
Inorganic	Barium	mg/kg		2.796	2.796	3.896	3 / 3	3.403
Inorganic	Beryllium	mg/kg	0.03029 / 0.05736	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4194 / 0.7887	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00717 / 0.01351	ND	0.00813	0.00862	2 / 3	0.008374
Inorganic	Calcium	mg/kg		11487	11487	15511	3 / 3	13147
Inorganic	Chromium	mg/kg	0.1305 / 0.2214	ND	0.2563	0.2629	2 / 3	0.2596
Inorganic	Cobalt	mg/kg		0.04427	0.04427	0.07223	3 / 3	0.05636
Inorganic	Copper	mg/kg		0.7409	0.7409	0.9087	3 / 3	0.8295
Inorganic	Iron	mg/kg		33.09	33.09	56.85	3 / 3	43.13
Inorganic	Lead	mg/kg		0.05825	0.05825	0.09087	3 / 3	0.07281
Inorganic	Magnesium	mg/kg		384.5	384.5	432.6	3 / 3	405.2
Inorganic	Manganese	mg/kg		27.26	27.26	35.37	3 / 3	31.28
Inorganic	Mercury	mg/kg		0.01072	0.01072	0.01398	3 / 3	0.01277
Inorganic	Molybdenum	mg/kg	0.03029 / 0.03495	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.1002 / 0.1864	ND	0.219	0.219	1 / 3	0.219
Inorganic	Potassium	mg/kg		3035	3035	3122	3 / 3	3085
Inorganic	Selenium	mg/kg		0.3961	0.3961	0.4063	3 / 3	0.3995
Inorganic	Silver	mg/kg	0.00256 / 0.00303	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		967	967	1051	3 / 3	1021
Inorganic	Strontium	mg/kg		7.223	7.223	11.81	3 / 3	9.21
Inorganic	Thallium	mg/kg	0.01212 / 0.01421	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.0466 / 0.1721	ND	0.1095	0.1095	1 / 3	0.1095
Inorganic	Zinc	mg/kg		14.56	14.56	16.73	3 / 3	15.87
Physical Properties	% Lipids	%		2	2	3	3 / 3	2.533
Physical Properties	% Moisture	%		76.1	76.1	76.7	3 / 3	76.5

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-49: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1468	1468	3453	3 / 3	2476
Inorganic	Antimony	mg/kg		0.04572	0.04572	0.05757	3 / 3	0.05324
Inorganic	Arsenic	mg/kg		2.108	2.108	2.727	3 / 3	2.342
Inorganic	Barium	mg/kg		11.89	11.89	59.43	3 / 3	36.6
Inorganic	Beryllium	mg/kg	0.1303 / 0.3048	ND	0.2394	0.2689	2 / 3	0.2542
Inorganic	Boron	mg/kg	1.818 / 4.267	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.06604	0.06604	0.1428	3 / 3	0.113
Inorganic	Calcium	mg/kg		287	287	883.1	3 / 3	623.3
Inorganic	Chromium	mg/kg		1.981	1.981	4.117	3 / 3	3.113
Inorganic	Cobalt	mg/kg		1.041	1.041	2.955	3 / 3	2.18
Inorganic	Copper	mg/kg		3.226	3.226	5.876	3 / 3	4.63
Inorganic	Iron	mg/kg		1090	1090	4183	3 / 3	2778
Inorganic	Lead	mg/kg		0.9652	0.9652	4.06	3 / 3	2.704
Inorganic	Magnesium	mg/kg		309.9	309.9	478.1	3 / 3	397
Inorganic	Manganese	mg/kg		63.75	63.75	250	3 / 3	166.6
Inorganic	Mercury	mg/kg		0.03302	0.03302	0.05312	3 / 3	0.04083
Inorganic	Molybdenum	mg/kg		0.1194	0.1194	0.2092	3 / 3	0.1681
Inorganic	Nickel	mg/kg		1.803	1.803	5.611	3 / 3	3.956
Inorganic	Potassium	mg/kg	3182 / 7442	ND	ND	ND	0 / 3	0
Inorganic	Selenium	mg/kg		1.527	1.527	1.727	3 / 3	1.61
Inorganic	Silver	mg/kg		0.01575	0.01575	0.0498	3 / 3	0.03296
Inorganic	Sodium	mg/kg		1189	1189	1242	3 / 3	1219
Inorganic	Strontium	mg/kg		3.912	3.912	5.606	3 / 3	4.866
Inorganic	Thallium	mg/kg	0.07366 / 0.1328	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		3.226	3.226	6.009	3 / 3	4.694
Inorganic	Zinc	mg/kg		34.04	34.04	43.94	3 / 3	39.94
Physical Properties	% Lipids	%		1.9	1.9	3.3	3 / 3	2.567
Physical Properties	% Moisture	%		66.8	66.8	74.6	3 / 3	70.37

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-50: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		200	200	595.7	3 / 3	390.5
Inorganic	Antimony	mg/kg	0.01265 / 0.01427	ND	0.02144	0.0276	2 / 3	0.02452
Inorganic	Arsenic	mg/kg		0.446	0.446	0.989	3 / 3	0.7362
Inorganic	Barium	mg/kg		6.244	6.244	9.982	3 / 3	8.208
Inorganic	Beryllium	mg/kg	0.0253 / 0.02899	ND	0.03536	0.0575	2 / 3	0.04643
Inorganic	Boron	mg/kg	0.368 / 0.4014	ND	0.4862	0.506	2 / 3	0.4961
Inorganic	Cadmium	mg/kg		0.01873	0.01873	0.0253	3 / 3	0.02278
Inorganic	Calcium	mg/kg		9430	9430	11956	3 / 3	10778
Inorganic	Chromium	mg/kg		0.669	0.669	0.92	3 / 3	0.8022
Inorganic	Cobalt	mg/kg		0.2096	0.2096	0.506	3 / 3	0.349
Inorganic	Copper	mg/kg		1.271	1.271	2.011	3 / 3	1.654
Inorganic	Iron	mg/kg		265.4	265.4	570.4	3 / 3	404.6
Inorganic	Lead	mg/kg		0.2899	0.2899	0.644	3 / 3	0.4586
Inorganic	Magnesium	mg/kg		330	330	435.4	3 / 3	374
Inorganic	Manganese	mg/kg		36.57	36.57	48.18	3 / 3	43.74
Inorganic	Mercury	mg/kg		0.01768	0.01768	0.0207	3 / 3	0.01963
Inorganic	Molybdenum	mg/kg		0.03568	0.03568	0.0598	3 / 3	0.05024
Inorganic	Nickel	mg/kg	0.0851 / 0.4683	ND	0.966	1.437	2 / 3	1.202
Inorganic	Potassium	mg/kg		2364	2364	3448	3 / 3	2865
Inorganic	Selenium	mg/kg		0.4906	0.4906	0.6188	3 / 3	0.5615
Inorganic	Silver	mg/kg		0.00424	0.00424	0.00508	3 / 3	0.004793
Inorganic	Sodium	mg/kg		1003	1003	1147	3 / 3	1081
Inorganic	Strontium	mg/kg		8.34	8.34	10.52	3 / 3	9.445
Inorganic	Thallium	mg/kg	0.02453 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.5352	0.5352	1.449	3 / 3	0.9929
Inorganic	Zinc	mg/kg		17.18	17.18	30.72	3 / 3	22.06
Physical Properties	% Lipids	%		2	2	2.4	3 / 3	2.133
Physical Properties	% Moisture	%		77	77	77.9	3 / 3	77.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-51: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		58.83	58.83	133.1	3 / 3	100.3
Inorganic	Antimony	mg/kg	0.01316 / 0.01487	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.1887	0.1887	0.4237	3 / 3	0.2738
Inorganic	Barium	mg/kg		4.151	4.151	5.246	3 / 3	4.835
Inorganic	Beryllium	mg/kg	0.02676 / 0.03108	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.3762 / 0.4218	ND	0.3971	0.3971	1 / 3	0.3971
Inorganic	Cadmium	mg/kg		0.00977	0.00977	0.01359	3 / 3	0.01173
Inorganic	Calcium	mg/kg		12624	12624	14075	3 / 3	13278
Inorganic	Chromium	mg/kg		0.2442	0.2442	0.3344	3 / 3	0.2895
Inorganic	Cobalt	mg/kg		0.0888	0.0888	0.1484	3 / 3	0.1207
Inorganic	Copper	mg/kg		0.6882	0.6882	1.129	3 / 3	0.9254
Inorganic	Iron	mg/kg		71.48	71.48	158.4	3 / 3	118.7
Inorganic	Lead	mg/kg		0.1021	0.1021	0.1806	3 / 3	0.1528
Inorganic	Magnesium	mg/kg		379.6	379.6	390.8	3 / 3	385.4
Inorganic	Manganese	mg/kg		31.75	31.75	37.69	3 / 3	34.08
Inorganic	Mercury	mg/kg		0.01516	0.01516	0.01931	3 / 3	0.01665
Inorganic	Molybdenum	mg/kg	0.03122 / 0.03552	ND	0.03344	0.03344	1 / 3	0.03344
Inorganic	Nickel	mg/kg	0.1332 / 0.2717	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		3122	3122	3177	3 / 3	3143
Inorganic	Selenium	mg/kg		0.4218	0.4218	0.5434	3 / 3	0.4778
Inorganic	Silver	mg/kg	0.00268 / 0.00289	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1068	1068	1131	3 / 3	1104
Inorganic	Strontium	mg/kg		9.05	9.05	9.768	3 / 3	9.365
Inorganic	Thallium	mg/kg	0.01275 / 0.01421	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.1332	0.1332	0.3791	3 / 3	0.2544
Inorganic	Zinc	mg/kg		15.45	15.45	16.81	3 / 3	16.23
Physical Properties	% Lipids	%		2.2	2.2	2.8	3 / 3	2.467
Physical Properties	% Moisture	%		77.7	77.7	79.1	3 / 3	78.2

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-52: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		2995	2995	7293	3 / 3	4903
Inorganic	Antimony	mg/kg	0.06624 / 0.06624	ND	0.07072	0.09752	2 / 3	0.08412
Inorganic	Arsenic	mg/kg		2.592	2.592	4.664	3 / 3	3.421
Inorganic	Barium	mg/kg		26.78	26.78	58.94	3 / 3	41.14
Inorganic	Beryllium	mg/kg	0.1901 / 0.3222	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg		2.218	2.218	5.173	3 / 3	3.731
Inorganic	Cadmium	mg/kg	0.07776 / 0.1442	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		671	671	1098	3 / 3	879.9
Inorganic	Chromium	mg/kg		4.435	4.435	10.01	3 / 3	6.981
Inorganic	Cobalt	mg/kg		2.794	2.794	5.046	3 / 3	3.807
Inorganic	Copper	mg/kg		6.566	6.566	49.5	3 / 3	22.21
Inorganic	Iron	mg/kg		3600	3600	7505	3 / 3	5322
Inorganic	Lead	mg/kg		3.974	3.974	9.812	3 / 3	7.45
Inorganic	Magnesium	mg/kg		489.6	489.6	954	3 / 3	706.6
Inorganic	Manganese	mg/kg		237	237	521.5	3 / 3	359.9
Inorganic	Mercury	mg/kg	0.05304 / 0.05512	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.1642 / 0.168	ND	0.2205	0.2205	1 / 3	0.2205
Inorganic	Nickel	mg/kg		3.658	3.658	7.505	3 / 3	5.415
Inorganic	Potassium	mg/kg		2304	2304	3184	3 / 3	2693
Inorganic	Selenium	mg/kg		1.238	1.238	1.654	3 / 3	1.406
Inorganic	Silver	mg/kg	0.02822 / 0.04332	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		901.7	901.7	999.4	3 / 3	934.7
Inorganic	Strontium	mg/kg		3.83	3.83	7.886	3 / 3	5.379
Inorganic	Thallium	mg/kg	0.1037 / 0.2883	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		5.299	5.299	11.58	3 / 3	7.998
Inorganic	Zinc	mg/kg		33.12	33.12	73.37	3 / 3	53.87
Physical Properties	% Lipids	%		2.6	2.6	3.2	3 / 3	2.8
Physical Properties	% Moisture	%		55.8	55.8	71.2	3 / 3	61.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-53: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		360.4	360.4	423.6	3 / 3	381.6
Inorganic	Antimony	mg/kg	0.01357 / 0.01419	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.424	0.424	0.4515	3 / 3	0.4358
Inorganic	Barium	mg/kg		6.36	6.36	6.912	3 / 3	6.667
Inorganic	Beryllium	mg/kg	0.02756 / 0.0301	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4085 / 1.858	ND	0.4085	0.4085	1 / 3	0.4085
Inorganic	Cadmium	mg/kg	0.01505 / 0.01685	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		14341	14341	16459	3 / 3	15319
Inorganic	Chromium	mg/kg		0.742	0.742	1.269	3 / 3	0.9655
Inorganic	Cobalt	mg/kg		0.324	0.324	0.3655	3 / 3	0.3429
Inorganic	Copper	mg/kg		1.187	1.187	1.29	3 / 3	1.222
Inorganic	Iron	mg/kg		347.8	347.8	434.3	3 / 3	378
Inorganic	Lead	mg/kg		0.3604	0.3604	0.43	3 / 3	0.3859
Inorganic	Magnesium	mg/kg		385.8	385.8	423.4	3 / 3	405.9
Inorganic	Manganese	mg/kg		30.53	30.53	32.18	3 / 3	31.37
Inorganic	Mercury	mg/kg		0.01318	0.01318	0.02014	3 / 3	0.01612
Inorganic	Molybdenum	mg/kg	0.03392 / 0.03456	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.4452	0.4452	0.516	3 / 3	0.4716
Inorganic	Potassium	mg/kg		2714	2714	2938	3 / 3	2823
Inorganic	Selenium	mg/kg		0.4028	0.4028	0.5832	3 / 3	0.472
Inorganic	Silver	mg/kg	0.00276 / 0.00323	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1303	1303	1372	3 / 3	1342
Inorganic	Strontium	mg/kg		10.09	10.09	11.36	3 / 3	10.68
Inorganic	Thallium	mg/kg	0.03392 / 0.04515	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.5832	0.5832	0.6665	3 / 3	0.6144
Inorganic	Zinc	mg/kg		18.57	18.57	19.67	3 / 3	19
Physical Properties	% Lipids	%		1.4	1.4	1.7	3 / 3	1.567
Physical Properties	% Moisture	%		78.4	78.4	78.8	3 / 3	78.57

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-54: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		47.96	47.96	63.43	3 / 3	56.9
Inorganic	Antimony	mg/kg	0.01286 / 0.01484	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2795	0.2795	0.3052	3 / 3	0.2902
Inorganic	Barium	mg/kg		4.386	4.386	5.276	3 / 3	4.959
Inorganic	Beryllium	mg/kg	0.02616 / 0.0301	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	1.7 / 1.978	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00902 / 0.00937	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		14900	14900	17160	3 / 3	16398
Inorganic	Chromium	mg/kg		0.1897	0.1897	0.2365	3 / 3	0.2088
Inorganic	Cobalt	mg/kg	0.0836 / 0.09675	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg		0.6976	0.6976	0.814	3 / 3	0.7619
Inorganic	Iron	mg/kg		55.44	55.44	71.38	3 / 3	64.65
Inorganic	Lead	mg/kg	0.1032 / 0.109	ND	ND	ND	0 / 3	0
Inorganic	Magnesium	mg/kg		363.4	363.4	401.1	3 / 3	387.6
Inorganic	Manganese	mg/kg		20.99	20.99	41.28	3 / 3	28.68
Inorganic	Mercury	mg/kg	0.01025 / 0.01144	ND	0.01134	0.01376	2 / 3	0.01255
Inorganic	Molybdenum	mg/kg	0.03052 / 0.03655	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.1373	0.1373	1.254	3 / 3	0.5218
Inorganic	Potassium	mg/kg		2537	2537	2769	3 / 3	2671
Inorganic	Selenium	mg/kg		0.3655	0.3655	0.44	3 / 3	0.3993
Inorganic	Silver	mg/kg	0.00262 / 0.00301	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1266	1266	1341	3 / 3	1315
Inorganic	Strontium	mg/kg		11.78	11.78	13.52	3 / 3	12.9
Inorganic	Thallium	mg/kg	0.01914 / 0.0264	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.044 / 0.05014	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		18.71	18.71	19.38	3 / 3	19.1
Physical Properties	% Lipids	%		1.7	1.7	1.7	3 / 3	1.7
Physical Properties	% Moisture	%		78	78	78.5	3 / 3	78.23

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-55: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		396	396	975.3	3 / 3	740.5
Inorganic	Antimony	mg/kg	0.01283 / 0.01463	ND	0.01617	0.01839	2 / 3	0.01728
Inorganic	Arsenic	mg/kg		1.373	1.373	2.372	3 / 3	1.934
Inorganic	Barium	mg/kg		3.24	3.24	7.187	3 / 3	5.517
Inorganic	Beryllium	mg/kg	0.02662 / 0.02925	ND	0.04655	0.0605	2 / 3	0.05353
Inorganic	Boron	mg/kg		0.4725	0.4725	0.9438	3 / 3	0.7253
Inorganic	Cadmium	mg/kg		0.0495	0.0495	0.0847	3 / 3	0.0676
Inorganic	Calcium	mg/kg		258.8	258.8	686	3 / 3	502.1
Inorganic	Chromium	mg/kg		0.63	0.63	1.549	3 / 3	1.159
Inorganic	Cobalt	mg/kg		0.3825	0.3825	0.7986	3 / 3	0.6142
Inorganic	Copper	mg/kg		2.205	2.205	3.528	3 / 3	2.984
Inorganic	Iron	mg/kg		459	459	1258	3 / 3	895.7
Inorganic	Lead	mg/kg		0.54	0.54	1.525	3 / 3	1.089
Inorganic	Magnesium	mg/kg		265.5	265.5	413.8	3 / 3	348.9
Inorganic	Manganese	mg/kg		51.3	51.3	99.95	3 / 3	80.96
Inorganic	Mercury	mg/kg		0.0315	0.0315	0.07744	3 / 3	0.05591
Inorganic	Molybdenum	mg/kg		0.0945	0.0945	0.1379	3 / 3	0.1199
Inorganic	Nickel	mg/kg		0.4725	0.4725	1.186	3 / 3	0.8795
Inorganic	Potassium	mg/kg		2360	2360	2588	3 / 3	2482
Inorganic	Selenium	mg/kg		2.295	2.295	3.001	3 / 3	2.68
Inorganic	Silver	mg/kg		0.01373	0.01373	0.02275	3 / 3	0.01722
Inorganic	Sodium	mg/kg		1159	1159	1348	3 / 3	1242
Inorganic	Strontium	mg/kg		0.7425	0.7425	1.428	3 / 3	1.197
Inorganic	Thallium	mg/kg	0.04725 / 0.08712	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.945	0.945	2.154	3 / 3	1.646
Inorganic	Zinc	mg/kg		30.15	30.15	36.51	3 / 3	33.11
Physical Properties	% Lipids	%		3.2	3.2	3.9	3 / 3	3.533
Physical Properties	% Moisture	%		75.5	75.5	77.5	3 / 3	76.27

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-56: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		78.2	78.2	139	3 / 3	103.5
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.39	0.39	0.44	3 / 3	0.41
Inorganic	Barium	mg/kg		3.7	3.7	4.6	3 / 3	4.033
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.39 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.012	0.012	0.013	3 / 3	0.01267
Inorganic	Calcium	mg/kg		11400	11400	13900	3 / 3	12567
Inorganic	Chromium	mg/kg		0.18	0.18	0.44	3 / 3	0.2767
Inorganic	Cobalt	mg/kg		0.095	0.095	0.13	3 / 3	0.1117
Inorganic	Copper	mg/kg		0.85	0.85	2.1	3 / 3	1.317
Inorganic	Iron	mg/kg		91.7	91.7	153	3 / 3	115.2
Inorganic	Lead	mg/kg		0.12	0.12	0.25	3 / 3	0.1833
Inorganic	Magnesium	mg/kg		365	365	402	3 / 3	388
Inorganic	Manganese	mg/kg		37.6	37.6	43	3 / 3	39.87
Inorganic	Mercury	mg/kg		0.014	0.014	0.023	3 / 3	0.01967
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.13	0.13	0.94	3 / 3	0.45
Inorganic	Potassium	mg/kg		2810	2810	2870	3 / 3	2837
Inorganic	Selenium	mg/kg		0.62	0.62	0.73	3 / 3	0.68
Inorganic	Silver	mg/kg	0.0027 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1190	1190	1240	3 / 3	1217
Inorganic	Strontium	mg/kg		8.5	8.5	11.6	3 / 3	9.667
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.22	0.22	0.32	3 / 3	0.2633
Inorganic	Zinc	mg/kg		17.4	17.4	20.2	3 / 3	18.7
Physical Properties	% Lipids	%		1.8	1.8	2.3	3 / 3	2.033
Physical Properties	% Moisture	%		78.5	78.5	78.9	3 / 3	78.73

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-57: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 19.8	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.25	0.25	0.31	3 / 3	0.28
Inorganic	Barium	mg/kg	0.041 / 0.043	ND	4.1	4.3	2 / 3	4.2
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 0.41	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.0076	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		144	144	15900	3 / 3	10181
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.013 / 0.013	ND	0.045	0.048	2 / 3	0.0465
Inorganic	Copper	mg/kg		0.33	0.33	0.72	3 / 3	0.5867
Inorganic	Iron	mg/kg		16	16	33.8	3 / 3	23.73
Inorganic	Lead	mg/kg	0.025 / 0.026	ND	0.067	0.07	2 / 3	0.0685
Inorganic	Magnesium	mg/kg		293	293	420	3 / 3	374.7
Inorganic	Manganese	mg/kg		0.25	0.25	40.6	3 / 3	26.75
Inorganic	Mercury	mg/kg		0.014	0.014	0.042	3 / 3	0.024
Inorganic	Molybdenum	mg/kg	0.031 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.087 / 0.098	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2680	2680	3930	3 / 3	3143
Inorganic	Selenium	mg/kg		0.45	0.45	0.53	3 / 3	0.4767
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		321	321	1200	3 / 3	887
Inorganic	Strontium	mg/kg		0.081	0.081	10.9	3 / 3	7.194
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.041 / 0.043	ND	0.08	0.086	2 / 3	0.083
Inorganic	Zinc	mg/kg		10.6	10.6	18.6	3 / 3	15.77
Physical Properties	% Lipids	%		2.1	2.1	2.4	3 / 3	2.2
Physical Properties	% Moisture	%		77.4	77.4	77.6	3 / 3	77.47

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-58: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		3130	3130	4070	3 / 3	3643
Inorganic	Antimony	mg/kg		0.092	0.092	0.11	3 / 3	0.099
Inorganic	Arsenic	mg/kg		4	4	5.4	3 / 3	4.633
Inorganic	Barium	mg/kg		33.5	33.5	50.8	3 / 3	41.67
Inorganic	Beryllium	mg/kg		0.25	0.25	0.38	3 / 3	0.3233
Inorganic	Boron	mg/kg		2.1	2.1	3	3 / 3	2.567
Inorganic	Cadmium	mg/kg		0.13	0.13	0.14	3 / 3	0.1367
Inorganic	Calcium	mg/kg		1280	1280	1730	3 / 3	1443
Inorganic	Chromium	mg/kg		5	5	7.2	3 / 3	5.9
Inorganic	Cobalt	mg/kg		2.3	2.3	3.1	3 / 3	2.667
Inorganic	Copper	mg/kg		9.7	9.7	12.9	3 / 3	11.17
Inorganic	Iron	mg/kg		3620	3620	5110	3 / 3	4283
Inorganic	Lead	mg/kg		4.6	4.6	6.1	3 / 3	5.167
Inorganic	Magnesium	mg/kg		660	660	843	3 / 3	741.7
Inorganic	Manganese	mg/kg		236	236	352	3 / 3	283
Inorganic	Mercury	mg/kg		0.11	0.11	0.23	3 / 3	0.1867
Inorganic	Molybdenum	mg/kg		0.23	0.23	0.25	3 / 3	0.2433
Inorganic	Nickel	mg/kg		4.1	4.1	5.1	3 / 3	4.7
Inorganic	Potassium	mg/kg		2880	2880	2990	3 / 3	2930
Inorganic	Selenium	mg/kg		1.8	1.8	2.2	3 / 3	2
Inorganic	Silver	mg/kg		0.022	0.022	0.031	3 / 3	0.02633
Inorganic	Sodium	mg/kg		950	950	1050	3 / 3	999.7
Inorganic	Strontium	mg/kg		11.6	11.6	18.5	3 / 3	14.37
Inorganic	Thallium	mg/kg	0.013 / 0.17	ND	0.19	0.2	2 / 3	0.195
Inorganic	Vanadium	mg/kg		6.8	6.8	9.3	3 / 3	8.267
Inorganic	Zinc	mg/kg		37.7	37.7	46.8	3 / 3	42.57
Physical Properties	% Lipids	%		3.9	3.9	4.4	3 / 3	4.167
Physical Properties	% Moisture	%		66.7	66.7	68.8	3 / 3	67.4

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-59: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		227	227	405.6	3 / 3	331
Inorganic	Antimony	mg/kg	0.01291 / 0.01409	ND	0.01749	0.02184	2 / 3	0.01967
Inorganic	Arsenic	mg/kg		0.4617	0.4617	0.806	3 / 3	0.6467
Inorganic	Barium	mg/kg		5.272	5.272	6.682	3 / 3	5.767
Inorganic	Beryllium	mg/kg	0.02609 / 0.02916	ND	0.0269	0.0338	2 / 3	0.03035
Inorganic	Boron	mg/kg	0.3766 / 0.416	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01239	0.01239	0.02444	3 / 3	0.01757
Inorganic	Calcium	mg/kg		9724	9724	10437	3 / 3	10098
Inorganic	Chromium	mg/kg		0.5589	0.5589	1.103	3 / 3	0.918
Inorganic	Cobalt	mg/kg		0.192	0.192	0.416	3 / 3	0.3192
Inorganic	Copper	mg/kg		1.239	1.239	2.152	3 / 3	1.815
Inorganic	Iron	mg/kg		245.4	245.4	486.2	3 / 3	372.1
Inorganic	Lead	mg/kg		0.2916	0.2916	0.832	3 / 3	0.6346
Inorganic	Magnesium	mg/kg		364.5	364.5	413.4	3 / 3	390.2
Inorganic	Manganese	mg/kg		32.81	32.81	60.58	3 / 3	47.27
Inorganic	Mercury	mg/kg		0.02125	0.02125	0.0286	3 / 3	0.02374
Inorganic	Molybdenum	mg/kg	0.03228 / 0.03402	ND	0.04035	0.0494	2 / 3	0.04488
Inorganic	Nickel	mg/kg		0.3402	0.3402	1.533	3 / 3	0.8237
Inorganic	Potassium	mg/kg		2652	2652	2860	3 / 3	2736
Inorganic	Selenium	mg/kg		0.3888	0.3888	0.5649	3 / 3	0.4826
Inorganic	Silver	mg/kg	0.00256 / 0.00292	ND	0.00364	0.00364	1 / 3	0.00364
Inorganic	Sodium	mg/kg		750.9	750.9	819	3 / 3	794.1
Inorganic	Strontium	mg/kg		7.882	7.882	8.086	3 / 3	8.012
Inorganic	Thallium	mg/kg	0.02163 / 0.0416	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.5346	0.5346	0.988	3 / 3	0.7676
Inorganic	Zinc	mg/kg		12.2	12.2	18.28	3 / 3	16.11
Physical Properties	% Lipids	%		5	5	6.8	3 / 3	6.067
Physical Properties	% Moisture	%		73.1	73.1	75.7	3 / 3	74.27

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-60: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		48.68	48.68	53.75	3 / 3	50.61
Inorganic	Antimony	mg/kg	0.01375 / 0.01485	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.325	0.325	0.3584	3 / 3	0.347
Inorganic	Barium	mg/kg		3.25	3.25	4.345	3 / 3	3.914
Inorganic	Beryllium	mg/kg	0.055 / 0.05888	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.8 / 0.8448	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.01475 / 0.01562	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		13625	13625	19223	3 / 3	16308
Inorganic	Chromium	mg/kg	0.2425 / 0.256	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.066	0.066	0.0768	3 / 3	0.07177
Inorganic	Copper	mg/kg		0.768	0.768	1.025	3 / 3	0.9277
Inorganic	Iron	mg/kg		65.02	65.02	89.25	3 / 3	74.8
Inorganic	Lead	mg/kg		0.125	0.125	0.1434	3 / 3	0.1335
Inorganic	Magnesium	mg/kg		392.5	392.5	463.4	3 / 3	437.5
Inorganic	Manganese	mg/kg		31	31	41.8	3 / 3	37.07
Inorganic	Mercury	mg/kg	0.011 / 0.01178	ND	0.01225	0.01485	2 / 3	0.01355
Inorganic	Molybdenum	mg/kg	0.0325 / 0.03584	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.185 / 0.1997	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2643	2643	2867	3 / 3	2753
Inorganic	Selenium	mg/kg		0.384	0.384	0.44	3 / 3	0.408
Inorganic	Silver	mg/kg	0.00275 / 0.00307	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		895	895	998.3	3 / 3	940.9
Inorganic	Strontium	mg/kg		8.45	8.45	11.91	3 / 3	10.3
Inorganic	Thallium	mg/kg	0.01325 / 0.01408	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.1331	0.1331	0.2008	3 / 3	0.1621
Inorganic	Zinc	mg/kg		16.97	16.97	17.6	3 / 3	17.32
Physical Properties	% Lipids	%		4.9	4.9	6.1	3 / 3	5.4
Physical Properties	% Moisture	%		72.5	72.5	75	3 / 3	73.97

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-61: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		2650	2650	2910	3 / 3	2757
Inorganic	Antimony	mg/kg		0.028	0.028	0.038	3 / 3	0.03433
Inorganic	Arsenic	mg/kg		1.4	1.4	1.7	3 / 3	1.567
Inorganic	Barium	mg/kg		27.9	27.9	75.4	3 / 3	45.97
Inorganic	Beryllium	mg/kg		0.16	0.16	0.17	3 / 3	0.1633
Inorganic	Boron	mg/kg		1.9	1.9	2	3 / 3	1.967
Inorganic	Cadmium	mg/kg		0.06	0.06	0.073	3 / 3	0.068
Inorganic	Calcium	mg/kg		1710	1710	1960	3 / 3	1833
Inorganic	Chromium	mg/kg		4.4	4.4	4.8	3 / 3	4.6
Inorganic	Cobalt	mg/kg		2.2	2.2	2.7	3 / 3	2.533
Inorganic	Copper	mg/kg		5.9	5.9	7.8	3 / 3	6.933
Inorganic	Iron	mg/kg		3820	3820	4530	3 / 3	4183
Inorganic	Lead	mg/kg		3.2	3.2	4.2	3 / 3	3.8
Inorganic	Magnesium	mg/kg		580	580	692	3 / 3	634.7
Inorganic	Manganese	mg/kg		253	253	338	3 / 3	304
Inorganic	Mercury	mg/kg		0.026	0.026	0.031	3 / 3	0.029
Inorganic	Molybdenum	mg/kg		0.13	0.13	0.16	3 / 3	0.1433
Inorganic	Nickel	mg/kg		3.3	3.3	3.8	3 / 3	3.5
Inorganic	Potassium	mg/kg		2300	2300	2390	3 / 3	2340
Inorganic	Selenium	mg/kg		1.2	1.2	1.3	3 / 3	1.233
Inorganic	Silver	mg/kg	0.0056 / 0.0056	ND	0.0067	0.0083	2 / 3	0.0075
Inorganic	Sodium	mg/kg		1000	1000	1150	3 / 3	1060
Inorganic	Strontium	mg/kg		3	3	4.9	3 / 3	3.7
Inorganic	Thallium	mg/kg	0.05 / 0.06	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		3.8	3.8	4.3	3 / 3	4.133
Inorganic	Zinc	mg/kg		27.5	27.5	32.9	3 / 3	31
Physical Properties	% Lipids	%		2.1	2.1	3.1	3 / 3	2.533
Physical Properties	% Moisture	%		65.9	65.9	69.1	3 / 3	67.97

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-62: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		23.1	23.1	629	3 / 3	240
Inorganic	Antimony	mg/kg	0.013 / 0.013	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.19	0.19	0.39	3 / 3	0.27
Inorganic	Barium	mg/kg		2.3	2.3	8.2	3 / 3	4.533
Inorganic	Beryllium	mg/kg	0.026 / 0.027	ND	0.041	0.041	1 / 3	0.041
Inorganic	Boron	mg/kg	0.36 / 0.39	ND	0.4	0.4	1 / 3	0.4
Inorganic	Cadmium	mg/kg		0.0088	0.0088	0.02	3 / 3	0.01293
Inorganic	Calcium	mg/kg		6440	6440	14100	3 / 3	10447
Inorganic	Chromium	mg/kg		0.13	0.13	1.6	3 / 3	0.6667
Inorganic	Cobalt	mg/kg		0.043	0.043	0.59	3 / 3	0.2367
Inorganic	Copper	mg/kg		0.89	0.89	2.1	3 / 3	1.33
Inorganic	Iron	mg/kg		104	104	943	3 / 3	387.7
Inorganic	Lead	mg/kg		0.056	0.056	0.81	3 / 3	0.3187
Inorganic	Magnesium	mg/kg		375	375	418	3 / 3	392.7
Inorganic	Manganese	mg/kg		16.4	16.4	63.8	3 / 3	32.33
Inorganic	Mercury	mg/kg		0.012	0.012	0.021	3 / 3	0.01533
Inorganic	Molybdenum	mg/kg	0.031 / 0.033	ND	0.044	0.044	1 / 3	0.044
Inorganic	Nickel	mg/kg		0.11	0.11	0.83	3 / 3	0.3733
Inorganic	Potassium	mg/kg		2620	2620	3230	3 / 3	3003
Inorganic	Selenium	mg/kg		0.74	0.74	1.1	3 / 3	0.8633
Inorganic	Silver	mg/kg	0.0025 / 0.0027	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		914	914	1070	3 / 3	982
Inorganic	Strontium	mg/kg		5.1	5.1	8.1	3 / 3	6.7
Inorganic	Thallium	mg/kg	0.012 / 0.013	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.073	0.073	0.95	3 / 3	0.3843
Inorganic	Zinc	mg/kg		14.1	14.1	17.9	3 / 3	16.1
Physical Properties	% Lipids	%		3.9	3.9	4.9	3 / 3	4.433
Physical Properties	% Moisture	%		73.4	73.4	76.8	3 / 3	75

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-63: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		94.3	94.3	199	3 / 3	143.8
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	0.018	0.018	1 / 3	0.018
Inorganic	Arsenic	mg/kg		0.2	0.2	0.28	3 / 3	0.2367
Inorganic	Barium	mg/kg		4.4	4.4	6.5	3 / 3	5.233
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.0076	ND	0.0097	0.0097	1 / 3	0.0097
Inorganic	Calcium	mg/kg		13100	13100	21200	3 / 3	17233
Inorganic	Chromium	mg/kg		0.31	0.31	0.5	3 / 3	0.4167
Inorganic	Cobalt	mg/kg		0.12	0.12	0.22	3 / 3	0.1667
Inorganic	Copper	mg/kg		0.88	0.88	0.94	3 / 3	0.9167
Inorganic	Iron	mg/kg		154	154	311	3 / 3	226
Inorganic	Lead	mg/kg		0.15	0.15	0.29	3 / 3	0.2167
Inorganic	Magnesium	mg/kg		432	432	532	3 / 3	481.3
Inorganic	Manganese	mg/kg		25.5	25.5	49.4	3 / 3	37.2
Inorganic	Mercury	mg/kg		0.012	0.012	0.013	3 / 3	0.01267
Inorganic	Molybdenum	mg/kg	0.034 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.17	0.17	0.45	3 / 3	0.2933
Inorganic	Potassium	mg/kg		2810	2810	3040	3 / 3	2947
Inorganic	Selenium	mg/kg		0.55	0.55	0.76	3 / 3	0.6433
Inorganic	Silver	mg/kg	0.0028 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		982	982	1140	3 / 3	1067
Inorganic	Strontium	mg/kg		8	8	10.6	3 / 3	9.7
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.2	0.2	0.35	3 / 3	0.2867
Inorganic	Zinc	mg/kg		15.7	15.7	19.1	3 / 3	17.47
Physical Properties	% Lipids	%		3.7	3.7	5.8	3 / 3	4.767
Physical Properties	% Moisture	%		73.8	73.8	75.3	3 / 3	74.73

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-64: TVA SAP Sampling, Spring 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		1390	1390	2410	3 / 3	1947
Inorganic	Antimony	mg/kg	0.058 / 0.098	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		2.1	2.1	4	3 / 3	3.167
Inorganic	Barium	mg/kg		13.8	13.8	29.3	3 / 3	22.27
Inorganic	Beryllium	mg/kg		0.12	0.12	0.24	3 / 3	0.1833
Inorganic	Boron	mg/kg		0.95	0.95	2	3 / 3	1.517
Inorganic	Cadmium	mg/kg	0.034 / 0.11	ND	0.12	0.12	1 / 3	0.12
Inorganic	Calcium	mg/kg		416	416	911	3 / 3	638.3
Inorganic	Chromium	mg/kg		1.7	1.7	3.1	3 / 3	2.433
Inorganic	Cobalt	mg/kg		0.86	0.86	1.5	3 / 3	1.22
Inorganic	Copper	mg/kg		4.3	4.3	7.5	3 / 3	6.1
Inorganic	Iron	mg/kg		1530	1530	2570	3 / 3	2087
Inorganic	Lead	mg/kg		1	1	3.2	3 / 3	2.133
Inorganic	Magnesium	mg/kg		330	330	493	3 / 3	413.7
Inorganic	Manganese	mg/kg		69.3	69.3	175	3 / 3	120.4
Inorganic	Mercury	mg/kg		0.076	0.076	0.14	3 / 3	0.1153
Inorganic	Molybdenum	mg/kg	0.16 / 0.16	ND	0.25	0.26	2 / 3	0.255
Inorganic	Nickel	mg/kg		1.6	1.6	3	3 / 3	2.3
Inorganic	Potassium	mg/kg	3190 / 3690	ND	ND	ND	0 / 3	0
Inorganic	Selenium	mg/kg		1.1	1.1	1.8	3 / 3	1.533
Inorganic	Silver	mg/kg	0.013 / 0.025	ND	0.028	0.028	1 / 3	0.028
Inorganic	Sodium	mg/kg		947	947	1200	3 / 3	1082
Inorganic	Strontium	mg/kg		4.6	4.6	12.8	3 / 3	8.8
Inorganic	Thallium	mg/kg	0.07 / 0.16	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		3.1	3.1	5.8	3 / 3	4.6
Inorganic	Zinc	mg/kg		29.5	29.5	32.8	3 / 3	31.37
Physical Properties	% Lipids	%		2.7	2.7	4.4	3 / 3	3.6
Physical Properties	% Moisture	%		68.5	68.5	74.5	3 / 3	70.93

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-65: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		101	101	244.4	3 / 3	174.6
Inorganic	Antimony	mg/kg	0.01452 / 0.01489	ND	0.01549	0.01549	1 / 3	0.01549
Inorganic	Arsenic	mg/kg		0.3664	0.3664	0.5525	3 / 3	0.4676
Inorganic	Barium	mg/kg		4.145	4.145	6.147	3 / 3	5.007
Inorganic	Beryllium	mg/kg	0.06144 / 0.1239	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4199 / 0.8473	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01557	0.01557	0.02178	3 / 3	0.01886
Inorganic	Calcium	mg/kg		10343	10343	12343	3 / 3	11378
Inorganic	Chromium	mg/kg	0.1304 / 0.2519	ND	0.3757	0.3872	2 / 3	0.3815
Inorganic	Cobalt	mg/kg		0.1076	0.1076	0.1791	3 / 3	0.1464
Inorganic	Copper	mg/kg		1.237	1.237	1.549	3 / 3	1.341
Inorganic	Iron	mg/kg		102.6	102.6	224.8	3 / 3	172.7
Inorganic	Lead	mg/kg		0.1718	0.1718	0.3146	3 / 3	0.2505
Inorganic	Magnesium	mg/kg		373.3	373.3	401.7	3 / 3	382.8
Inorganic	Manganese	mg/kg		32.29	32.29	33.88	3 / 3	33.25
Inorganic	Mercury	mg/kg		0.01374	0.01374	0.02662	3 / 3	0.02045
Inorganic	Molybdenum	mg/kg	0.03536 / 0.03664	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.2748	0.2748	0.3388	3 / 3	0.3003
Inorganic	Potassium	mg/kg		2931	2931	3243	3 / 3	3082
Inorganic	Selenium	mg/kg		0.458	0.458	0.605	3 / 3	0.5385
Inorganic	Silver	mg/kg	0.00287 / 0.00287	ND	0.00339	0.00344	2 / 3	0.003412
Inorganic	Sodium	mg/kg		1120	1120	1193	3 / 3	1149
Inorganic	Strontium	mg/kg		8.265	8.265	9.728	3 / 3	8.845
Inorganic	Thallium	mg/kg	0.0229 / 0.03388	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.2519	0.2519	0.6534	3 / 3	0.4638
Inorganic	Zinc	mg/kg		16.29	16.29	19.56	3 / 3	18.34
Physical Properties	% Lipids	%		2.6	2.6	3.4	3 / 3	2.967
Physical Properties	% Moisture	%		75.8	75.8	77.9	3 / 3	76.93

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-66: TVA SAP Sampling, Spring 2010 - Gizzard Shad Whole Body (Minus Gut Content) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		11.91	11.91	144.8	3 / 3	63.71
Inorganic	Antimony	mg/kg	0.0147 / 0.01491	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.1957	0.1957	0.3856	3 / 3	0.2763
Inorganic	Barium	mg/kg		4.078	4.078	6.001	3 / 3	4.762
Inorganic	Beryllium	mg/kg	0.1207 / 0.1237	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.8435 / 0.8621	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.00862	0.00862	0.01856	3 / 3	0.01199
Inorganic	Calcium	mg/kg		12074	12074	13680	3 / 3	12647
Inorganic	Chromium	mg/kg	0.2563 / 0.27	ND	0.3615	0.3615	1 / 3	0.3615
Inorganic	Cobalt	mg/kg		0.03728	0.03728	0.1277	3 / 3	0.07299
Inorganic	Copper	mg/kg		0.699	0.699	1.542	3 / 3	1.047
Inorganic	Iron	mg/kg	24.34 / 24.93	ND	41.63	151.1	2 / 3	96.37
Inorganic	Lead	mg/kg		0.07456	0.07456	0.2193	3 / 3	0.134
Inorganic	Magnesium	mg/kg		361.2	361.2	407.3	3 / 3	386.7
Inorganic	Manganese	mg/kg		29.88	29.88	35.78	3 / 3	32.92
Inorganic	Mercury	mg/kg	0.01157 / 0.01188	ND	0.00458	0.01508	2 / 3	0.00983
Inorganic	Molybdenum	mg/kg	0.036 / 0.03728	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.1976 / 0.2027	ND	0.2892	0.2892	1 / 3	0.2892
Inorganic	Potassium	mg/kg		2819	2819	2925	3 / 3	2879
Inorganic	Selenium	mg/kg		0.3961	0.3961	0.7471	3 / 3	0.5161
Inorganic	Silver	mg/kg	0.00289 / 0.00303	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1128	1128	1186	3 / 3	1164
Inorganic	Strontium	mg/kg		9.972	9.972	10.46	3 / 3	10.21
Inorganic	Thallium	mg/kg	0.01794 / 0.02651	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.09158 / 0.09553	ND	0.4338	0.4338	1 / 3	0.4338
Inorganic	Zinc	mg/kg		17.89	17.89	19.04	3 / 3	18.43
Physical Properties	% Lipids	%		2.3	2.3	2.8	3 / 3	2.5
Physical Properties	% Moisture	%		75.9	75.9	77.5	3 / 3	76.7

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-67: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	7.05 / 20.31	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.0255 / 0.0744	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg	0.048 / 0.1343	ND	0.051	0.186	2 / 3	0.1185
Inorganic	Barium	mg/kg		0.78	0.78	1.302	3 / 3	0.9863
Inorganic	Beryllium	mg/kg	0.264 / 0.3069	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.72 / 2.108	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.069 / 0.0806	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		22980	22980	31310	3 / 3	27778
Inorganic	Chromium	mg/kg	0.222 / 0.651	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.0249 / 0.0713	ND	0.051	0.051	1 / 3	0.051
Inorganic	Copper	mg/kg	0.255 / 0.744	ND	0.36	0.822	2 / 3	0.591
Inorganic	Iron	mg/kg	21.21 / 61.07	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.0246 / 0.02658	ND	0.03007	0.03007	1 / 3	0.03007
Inorganic	Magnesium	mg/kg		528	528	697.5	3 / 3	617.7
Inorganic	Manganese	mg/kg		3.99	3.99	10.93	3 / 3	7.464
Inorganic	Mercury	mg/kg		0.045	0.045	0.1147	3 / 3	0.07241
Inorganic	Molybdenum	mg/kg	0.063 / 0.1798	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.171 / 0.496	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		1947	1947	2159	3 / 3	2043
Inorganic	Selenium	mg/kg		0.465	0.465	0.54	3 / 3	0.4994
Inorganic	Silver	mg/kg	0.0051 / 0.01457	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1569	1569	1848	3 / 3	1751
Inorganic	Strontium	mg/kg		16.47	16.47	20.27	3 / 3	18.33
Inorganic	Thallium	mg/kg	0.012 / 0.01395	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.159 / 0.465	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		16.83	16.83	22.72	3 / 3	19.66
Physical Properties	% Lipids	%		3	3	5.3	3 / 3	4.5
Physical Properties	% Moisture	%		69	69	72.6	3 / 3	70.53

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-68: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 7.918	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.01502	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.02033	0.02033	0.1438	6 / 6	0.08511
Inorganic	Barium	mg/kg	0.041 / 0.0468	ND	0.047	0.047	1 / 6	0.047
Inorganic	Beryllium	mg/kg	0.027 / 0.1177	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.8132	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.00792	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		107.8	107.8	832	6 / 6	372.1
Inorganic	Chromium	mg/kg	0.11 / 0.2568	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.02782	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.19	0.19	0.5319	6 / 6	0.3174
Inorganic	Iron	mg/kg	10.9 / 23.75	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.02925	ND	0.02955	0.02955	1 / 6	0.02955
Inorganic	Magnesium	mg/kg		254.1	254.1	312.4	6 / 6	283.8
Inorganic	Manganese	mg/kg	0.15 / 0.3424	ND	0.17	0.1827	2 / 6	0.1764
Inorganic	Mercury	mg/kg		0.08	0.08	0.2354	6 / 6	0.1191
Inorganic	Molybdenum	mg/kg	0.032 / 0.03705	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.1926	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3715	3715	4066	6 / 6	3883
Inorganic	Selenium	mg/kg		0.394	0.394	0.5481	6 / 6	0.4577
Inorganic	Silver	mg/kg	0.0026 / 0.00305	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		333.5	333.5	455.8	6 / 6	397.8
Inorganic	Strontium	mg/kg		0.04875	0.04875	0.55	6 / 6	0.2232
Inorganic	Thallium	mg/kg	0.012 / 0.01424	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.1776	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.101	4.101	8.171	6 / 6	6.151
Physical Properties	% Lipids	%		0.29	0.29	1	6 / 6	0.5567
Physical Properties	% Moisture	%		78.6	78.6	80.5	6 / 6	79.6

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-69: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	8.11 / 20.72	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.014 / 0.0149	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.235	0.235	0.2516	3 / 3	0.2428
Inorganic	Barium	mg/kg		1.562	1.562	3.2	3 / 3	2.205
Inorganic	Beryllium	mg/kg	0.1213 / 0.285	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.8556 / 2.152	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0075 / 0.07944	ND	0.0125	0.02009	2 / 3	0.0163
Inorganic	Calcium	mg/kg		30618	30618	68000	3 / 3	44888
Inorganic	Chromium	mg/kg	0.2567 / 0.662	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.02864 / 0.07282	ND	0.0558	0.0558	1 / 3	0.0558
Inorganic	Copper	mg/kg	0.2939 / 0.7613	ND	0.3683	0.3683	1 / 3	0.3683
Inorganic	Iron	mg/kg	24.44 / 62.56	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.0265 / 0.0288	ND	0.027	0.027	1 / 3	0.027
Inorganic	Magnesium	mg/kg		655.4	655.4	1240	3 / 3	886
Inorganic	Manganese	mg/kg		4.7	4.7	10.05	3 / 3	7.149
Inorganic	Mercury	mg/kg		0.0405	0.0405	0.0744	3 / 3	0.05706
Inorganic	Molybdenum	mg/kg	0.0335 / 0.1821	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.1972 / 0.4965	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg	1248 / 3450	ND	2267	2578	2 / 3	2423
Inorganic	Selenium	mg/kg		0.4303	0.4303	0.558	3 / 3	0.5128
Inorganic	Silver	mg/kg	0.00275 / 0.0149	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1830	1830	2790	3 / 3	2203
Inorganic	Strontium	mg/kg		23.73	23.73	55	3 / 3	34.44
Inorganic	Thallium	mg/kg	0.013 / 0.01589	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.093 / 0.4733	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		20.09	20.09	33.25	3 / 3	27.44
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.141	0.141	0.141	1 / 1	0.141
Organic-PCBs	PCB-1260	mg/kg		0.524	0.524	0.524	1 / 1	0.524

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-69: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0217	0.0217	0.0217	1 / 1	0.0217
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0158	0.0158	0.0158	1 / 1	0.0158
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0085	0.0085	0.0085	1 / 1	0.0085
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg		0.0031	0.0031	0.0031	1 / 1	0.0031
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		6.3	6.3	6.6	2 / 2	6.45
Physical Properties	% Moisture	%		66.9	66.9	67.4	2 / 2	67.15
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 1	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.273	0.273	0.273	1 / 1	0.273
Speciation	Arsenite	mg/kg	0.002 / 0.002	ND	ND	ND	0 / 1	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 1	0
Speciation	Organic Arsenic	mg/kg		0.273	0.273	0.273	1 / 1	0.273

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-70: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.161	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.094	0.094	0.1848	6 / 6	0.1454
Inorganic	Barium	mg/kg	0.041 / 0.0484	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.0621	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.44	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.00792	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		122	122	542	6 / 6	244.2
Inorganic	Chromium	mg/kg	0.11 / 0.1325	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.0147	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.246	0.246	0.59	6 / 6	0.3227
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.02898	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		255	255	292.6	6 / 6	276
Inorganic	Manganese	mg/kg	0.15 / 0.176	ND	0.205	0.205	1 / 6	0.205
Inorganic	Mercury	mg/kg		0.1107	0.1107	0.21	6 / 6	0.1426
Inorganic	Molybdenum	mg/kg	0.032 / 0.0374	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.1014	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3920	3920	4334	6 / 6	4109
Inorganic	Selenium	mg/kg		0.36	0.36	0.4968	6 / 6	0.4501
Inorganic	Silver	mg/kg	0.0026 / 0.00308	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		357	357	444	6 / 6	398.5
Inorganic	Strontium	mg/kg		0.06003	0.06003	0.41	6 / 6	0.154
Inorganic	Thallium	mg/kg	0.012 / 0.01606	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.0484	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.3	6.3	10.1	6 / 6	8.702
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg		0.0976	0.0976	0.105	2 / 2	0.1013

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-70: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.39	0.39	1.7	8 / 8	0.8163
Physical Properties	% Moisture	%		78	78	80.7	8 / 8	79.15
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.104 / 0.172	ND	0.152	0.152	1 / 2	0.152
Speciation	Arsenite	mg/kg	0.0004 / 0.0006	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.104 / 0.172	ND	0.152	0.152	1 / 2	0.152

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-71: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	8.186 / 40.22	ND	27.39	27.39	1 / 6	27.39
Inorganic	Antimony	mg/kg	0.0136 / 0.07568	ND	0.01475	0.01475	1 / 6	0.01475
Inorganic	Arsenic	mg/kg		0.2515	0.2515	0.369	6 / 6	0.2982
Inorganic	Barium	mg/kg		0.9288	0.9288	2.214	6 / 6	1.4
Inorganic	Beryllium	mg/kg	0.06099 / 0.3096	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.8346 / 4.17	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00711 / 0.07912	ND	0.01638	0.07011	5 / 6	0.03575
Inorganic	Calcium	mg/kg		24011	24011	62730	6 / 6	34284
Inorganic	Chromium	mg/kg	0.26 / 1.292	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.02889 / 0.1402	ND	0.03082	0.03082	1 / 6	0.03082
Inorganic	Copper	mg/kg	0.2953 / 1.439	ND	0.5136	2.017	4 / 6	1.106
Inorganic	Iron	mg/kg	24.62 / 121	ND	24.91	24.91	1 / 6	24.91
Inorganic	Lead	mg/kg	0.02472 / 0.02855	ND	0.02848	0.02848	1 / 6	0.02848
Inorganic	Magnesium	mg/kg		597.1	597.1	1273	6 / 6	771.7
Inorganic	Manganese	mg/kg		3.492	3.492	10.7	6 / 6	6.732
Inorganic	Mercury	mg/kg		0.03063	0.03063	0.06321	6 / 6	0.05136
Inorganic	Molybdenum	mg/kg	0.03311 / 0.1823	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.199 / 0.9963	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg	1242 / 7269	ND	2077	2092	2 / 6	2085
Inorganic	Selenium	mg/kg		0.516	0.516	0.8025	6 / 6	0.6856
Inorganic	Silver	mg/kg	0.00275 / 0.01479	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1706	1706	2458	6 / 6	1957
Inorganic	Strontium	mg/kg		20.35	20.35	49.45	6 / 6	27.03
Inorganic	Thallium	mg/kg	0.01333 / 0.0214	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.09309 / 0.4816	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		21.22	21.22	37.64	6 / 6	31.77
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.362	0.362	0.362	1 / 1	0.362
Organic-PCBs	PCB-1260	mg/kg		0.898	0.898	0.898	1 / 1	0.898

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-71: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 4.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0411	0.0411	0.0411	1 / 1	0.0411
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0173	0.0173	0.0173	1 / 1	0.0173
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0142	0.0142	0.0142	1 / 1	0.0142
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg		0.0059	0.0059	0.0059	1 / 1	0.0059
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg		0.0029	0.0029	0.0029	1 / 1	0.0029
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg		0.0051	0.0051	0.0051	1 / 1	0.0051
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		11.8	11.8	11.9	2 / 2	11.85
Physical Properties	% Moisture	%		63.1	63.1	69.9	6 / 6	66.92
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.276	0.276	0.276	1 / 1	0.276
Speciation	Arsenite	mg/kg	0.001 / 0.001	ND	ND	ND	0 / 1	0
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Speciation	Organic Arsenic	mg/kg		0.276	0.276	0.276	1 / 1	0.276

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-72: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.754 / 4.154	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01367 / 0.01491	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1066	0.1066	0.2376	6 / 6	0.1658
Inorganic	Barium	mg/kg	0.0432 / 0.04686	ND	0.0492	0.0656	2 / 6	0.0574
Inorganic	Beryllium	mg/kg	0.02784 / 0.03075	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3888 / 0.4305	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00716 / 0.00788	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		151.5	151.5	1316	6 / 6	640.5
Inorganic	Chromium	mg/kg	0.1194 / 0.1321	ND	0.1432	0.1432	1 / 6	0.1432
Inorganic	Cobalt	mg/kg	0.01324 / 0.0147	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2018	0.2018	0.6177	6 / 6	0.3735
Inorganic	Iron	mg/kg	11.33 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02592 / 0.02982	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		264.5	264.5	319.8	6 / 6	299
Inorganic	Manganese	mg/kg	0.1606 / 0.1768	ND	0.175	0.246	3 / 6	0.2005
Inorganic	Mercury	mg/kg		0.06048	0.06048	0.1276	6 / 6	0.1011
Inorganic	Molybdenum	mg/kg	0.03255 / 0.0369	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09114 / 0.1022	ND	0.1085	0.1085	1 / 6	0.1085
Inorganic	Potassium	mg/kg		3480	3480	3772	6 / 6	3621
Inorganic	Selenium	mg/kg		0.3712	0.3712	0.6944	6 / 6	0.5265
Inorganic	Silver	mg/kg	0.00278 / 0.00298	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		319.8	319.8	449.2	6 / 6	402
Inorganic	Strontium	mg/kg		0.07595	0.07595	0.984	6 / 6	0.4297
Inorganic	Thallium	mg/kg	0.01322 / 0.01598	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04715 / 0.1606	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.777	5.777	12.91	6 / 6	9.563
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	0.213	0.213	1 / 2	0.213
Organic-PCBs	PCB-1260	mg/kg		0.0739	0.0739	0.497	2 / 2	0.2855

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-72: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 4.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0278	0.0278	1 / 2	0.0278
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0134	0.0134	1 / 2	0.0134
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0094	0.0094	1 / 2	0.0094
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	0.004	0.004	1 / 2	0.004
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.44	0.44	4.1	8 / 8	1.455
Physical Properties	% Moisture	%		76.5	76.5	79.5	8 / 8	78.35
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.142 / 0.142	ND	0.179	0.179	1 / 2	0.179
Speciation	Arsenite	mg/kg	0.001 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.142 / 0.142	ND	0.179	0.179	1 / 2	0.179

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-73: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	7.726 / 18.72	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.01361 / 0.01474	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2731	0.2731	0.3377	3 / 3	0.2955
Inorganic	Barium	mg/kg		1.013	1.013	1.394	3 / 3	1.146
Inorganic	Beryllium	mg/kg	0.1166 / 0.1394	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.7992 / 1.926	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.00697 / 0.00697	ND	0.00899	0.03009	2 / 3	0.01954
Inorganic	Calcium	mg/kg		26773	26773	41500	3 / 3	31763
Inorganic	Chromium	mg/kg	0.2464 / 0.5976	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.02731 / 0.0664	ND	0.03663	0.03663	1 / 3	0.03663
Inorganic	Copper	mg/kg	0.2797 / 0.664	ND	0.3263	0.4605	2 / 3	0.3934
Inorganic	Iron	mg/kg	23.28 / 56.44	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.0259 / 0.02855	ND	0.02656	0.02764	2 / 3	0.0271
Inorganic	Magnesium	mg/kg		586.1	586.1	670.6	3 / 3	618.5
Inorganic	Manganese	mg/kg		4.82	4.82	6.64	3 / 3	5.962
Inorganic	Mercury	mg/kg		0.03991	0.03991	0.0498	3 / 3	0.04433
Inorganic	Molybdenum	mg/kg	0.03287 / 0.0333	ND	0.04298	0.04298	1 / 3	0.04298
Inorganic	Nickel	mg/kg	0.1898 / 0.4648	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2208	2208	2367	3 / 3	2298
Inorganic	Selenium	mg/kg		0.5661	0.5661	0.921	3 / 3	0.6949
Inorganic	Silver	mg/kg	0.00269 / 0.00298	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1618	1618	1922	3 / 3	1756
Inorganic	Strontium	mg/kg		20.88	20.88	35.52	3 / 3	26.6
Inorganic	Thallium	mg/kg	0.01632 / 0.03039	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.08658 / 0.2125	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		17.92	17.92	21.21	3 / 3	19.79
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.15	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.1 / 0.15	ND	0.138	0.138	1 / 2	0.138
Organic-PCBs	PCB-1260	mg/kg		0.645	0.645	0.809	2 / 2	0.727

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-73: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0256	0.0256	0.0319	2 / 2	0.02875
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0136	0.0136	0.0187	2 / 2	0.01615
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0048	0.0048	0.0057	2 / 2	0.00525
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		4.4	4.4	7.4	5 / 5	5.54
Physical Properties	% Moisture	%		66.7	66.7	77	5 / 5	69.88
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	0.01	0.01	1 / 2	0.01
Speciation	Arsenic (from speciation lab)	mg/kg		0.196	0.196	0.362	2 / 2	0.279
Speciation	Arsenite	mg/kg		0.006	0.006	0.014	2 / 2	0.01
Speciation	Inorganic Arsenic	mg/kg		0.007	0.007	0.024	2 / 2	0.0155
Speciation	Organic Arsenic	mg/kg		0.189	0.189	0.338	2 / 2	0.2635

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-74: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.13	0.13	0.1965	6 / 6	0.1678
Inorganic	Barium	mg/kg	0.042 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.05957	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		145	145	493.2	6 / 6	289.5
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	0.016	0.016	1 / 6	0.016
Inorganic	Copper	mg/kg		0.19	0.19	7.3	6 / 6	1.408
Inorganic	Iron	mg/kg	11 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	0.23	0.23	1 / 6	0.23
Inorganic	Magnesium	mg/kg		267	267	309	6 / 6	286.7
Inorganic	Manganese	mg/kg	0.16 / 0.18	ND	0.17	0.2299	2 / 6	0.2
Inorganic	Mercury	mg/kg		0.059	0.059	0.19	6 / 6	0.1127
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	0.75	0.75	1 / 6	0.75
Inorganic	Potassium	mg/kg		3990	3990	4170	6 / 6	4081
Inorganic	Selenium	mg/kg		0.46	0.46	0.88	6 / 6	0.658
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		394	394	467	6 / 6	430.6
Inorganic	Strontium	mg/kg		0.081	0.081	0.3762	6 / 6	0.1979
Inorganic	Thallium	mg/kg	0.013 / 0.03971	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5	5	10.6	6 / 6	7.344
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1260	mg/kg		0.1	0.1	0.152	2 / 2	0.126

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-74: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0073	0.0073	1 / 2	0.0073
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.56	0.56	2	8 / 8	1.148
Physical Properties	% Moisture	%		78.1	78.1	80.2	8 / 8	78.86
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.166	0.166	0.177	2 / 2	0.1715
Speciation	Arsenite	mg/kg	0.0006 / 0.002	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg		0.166	0.166	0.177	2 / 2	0.1715

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-75: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4 / 7.6	ND	5.1	5.1	1 / 3	5.1
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	0.014	0.014	1 / 3	0.014
Inorganic	Arsenic	mg/kg		0.4	0.4	0.55	3 / 3	0.5
Inorganic	Barium	mg/kg		0.83	0.83	0.91	3 / 3	0.8833
Inorganic	Beryllium	mg/kg	0.03 / 0.056	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.42 / 0.79	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0072 / 0.011	ND	0.0087	0.0087	1 / 3	0.0087
Inorganic	Calcium	mg/kg		8110	8110	24000	3 / 3	16937
Inorganic	Chromium	mg/kg		0.17	0.17	0.59	3 / 3	0.3233
Inorganic	Cobalt	mg/kg	0.014 / 0.017	ND	0.064	0.064	1 / 3	0.064
Inorganic	Copper	mg/kg		0.35	0.35	1.8	3 / 3	0.8667
Inorganic	Iron	mg/kg	12.2 / 12.2	ND	14.8	677	2 / 3	345.9
Inorganic	Lead	mg/kg	0.027 / 0.028	ND	0.056	0.056	1 / 3	0.056
Inorganic	Magnesium	mg/kg		465	465	896	3 / 3	645.7
Inorganic	Manganese	mg/kg		2	2	9.8	3 / 3	5.5
Inorganic	Mercury	mg/kg		0.037	0.037	0.049	3 / 3	0.04433
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	0.11	0.11	1 / 3	0.11
Inorganic	Nickel	mg/kg		0.16	0.16	0.43	3 / 3	0.2967
Inorganic	Potassium	mg/kg	1380 / 3610	ND	2150	2150	1 / 3	2150
Inorganic	Selenium	mg/kg		0.64	0.64	0.78	3 / 3	0.7133
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1410	1410	1620	3 / 3	1550
Inorganic	Strontium	mg/kg		14.3	14.3	29.2	3 / 3	21.1
Inorganic	Thallium	mg/kg	0.014 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.046 / 0.087	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		16.7	16.7	30.2	3 / 3	23.97
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.131	0.131	0.131	1 / 1	0.131
Organic-PCBs	PCB-1260	mg/kg		0.46	0.46	0.46	1 / 1	0.46

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-75: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0176	0.0176	0.0176	1 / 1	0.0176
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0134	0.0134	0.0134	1 / 1	0.0134
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0047	0.0047	0.0047	1 / 1	0.0047
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg		0.0026	0.0026	0.0026	1 / 1	0.0026
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		7	7	8.6	2 / 2	7.8
Physical Properties	% Moisture	%		66	66	68.1	2 / 2	67.05
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	0.006	0.006	1 / 2	0.006
Speciation	Arsenic (from speciation lab)	mg/kg		0.31	0.31	0.524	2 / 2	0.417
Speciation	Arsenite	mg/kg	0.0006 / 0.0006	ND	0.011	0.011	1 / 2	0.011
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	0.017	0.017	1 / 2	0.017
Speciation	Organic Arsenic	mg/kg		0.293	0.293	0.524	2 / 2	0.4085

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-76: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 8.3	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.074	0.074	0.36	6 / 6	0.274
Inorganic	Barium	mg/kg	0.042 / 0.095	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.061	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.86	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0071 / 0.016	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		144	144	470	6 / 6	285.8
Inorganic	Chromium	mg/kg	0.12 / 0.26	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.13 / 0.3	ND	0.18	0.28	5 / 6	0.228
Inorganic	Iron	mg/kg	11.2 / 25	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		247	247	332	6 / 6	294
Inorganic	Manganese	mg/kg	0.16 / 0.35	ND	0.17	0.18	2 / 6	0.175
Inorganic	Mercury	mg/kg		0.064	0.064	0.3	6 / 6	0.1175
Inorganic	Molybdenum	mg/kg	0.033 / 0.073	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.2	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg	670 / 3730	ND	3620	4160	3 / 6	3860
Inorganic	Selenium	mg/kg		0.5	0.5	0.72	6 / 6	0.615
Inorganic	Silver	mg/kg	0.0027 / 0.006	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		366	366	509	6 / 6	423.5
Inorganic	Strontium	mg/kg		0.074	0.074	0.36	6 / 6	0.1937
Inorganic	Thallium	mg/kg	0.013 / 0.035	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.095	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.7	5.7	14	6 / 6	8.45
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 3	0
Organic-PCBs	PCB-1260	mg/kg		0.0603	0.0603	0.158	3 / 3	0.1034

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-76: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0065	0.0065	1 / 3	0.0065
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0052	0.0052	1 / 3	0.0052
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 3	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 3	0
Physical Properties	% Lipids	%		0.36	0.36	2	9 / 9	1.243
Physical Properties	% Moisture	%		78.2	78.2	81.4	9 / 9	79.33
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 3	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.245	0.245	0.353	3 / 3	0.2957
Speciation	Arsenite	mg/kg	0.0005 / 0.0005	ND	ND	ND	0 / 3	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 3	0
Speciation	Organic Arsenic	mg/kg		0.245	0.245	0.353	3 / 3	0.2957

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-77: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4.104 / 17.6	ND	4.651	4.651	1 / 3	4.651
Inorganic	Antimony	mg/kg	0.013 / 0.01471	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.27	0.27	0.4104	3 / 3	0.3268
Inorganic	Barium	mg/kg		0.69	0.69	1.2	3 / 3	1.018
Inorganic	Beryllium	mg/kg	0.0301 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4104 / 1.8	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0067 / 0.0067	ND	0.00787	0.0093	2 / 3	0.008583
Inorganic	Calcium	mg/kg		24600	24600	32800	3 / 3	28310
Inorganic	Chromium	mg/kg	0.13 / 0.56	ND	0.2018	0.2018	1 / 3	0.2018
Inorganic	Cobalt	mg/kg	0.01436 / 0.062	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg	0.1471 / 0.63	ND	0.3146	2.7	2 / 3	1.507
Inorganic	Iron	mg/kg	12.31 / 52.9	ND	14.74	14.74	1 / 3	14.74
Inorganic	Lead	mg/kg	0.024 / 0.024	ND	0.02873	0.1	2 / 3	0.06437
Inorganic	Magnesium	mg/kg		602	602	733	3 / 3	655.9
Inorganic	Manganese	mg/kg		3.9	3.9	6.1	3 / 3	5.18
Inorganic	Mercury	mg/kg		0.053	0.053	0.07866	3 / 3	0.06855
Inorganic	Molybdenum	mg/kg	0.031 / 0.03762	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.09918 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2083	2083	2250	3 / 3	2191
Inorganic	Selenium	mg/kg		0.52	0.52	0.55	3 / 3	0.5391
Inorganic	Silver	mg/kg	0.0025 / 0.00294	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1553	1553	1940	3 / 3	1768
Inorganic	Strontium	mg/kg		15.5	15.5	23.5	3 / 3	20.03
Inorganic	Thallium	mg/kg	0.012 / 0.01402	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.04788 / 0.2	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		15.1	15.1	22.78	3 / 3	19.29
Organic-PCBs	PCB-1016	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.146	0.146	0.188	2 / 2	0.167
Organic-PCBs	PCB-1260	mg/kg		0.536	0.536	0.539	2 / 2	0.5375

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-77: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0168	0.0168	0.0206	2 / 2	0.0187
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0117	0.0117	0.0136	2 / 2	0.01265
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0073	0.0073	0.014	2 / 2	0.01065
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	0.0062	0.0062	1 / 2	0.0062
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0061	0.0061	1 / 2	0.0061
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg		0.0048	0.0048	0.0069	2 / 2	0.00585
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		4.5	4.5	6	4 / 4	5.125
Physical Properties	% Moisture	%		65.7	65.7	72.5	4 / 4	69.78
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.244	0.244	0.282	2 / 2	0.263
Speciation	Arsenite	mg/kg	0.001 / 0.001	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg		0.244	0.244	0.282	2 / 2	0.263

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-78: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.813 / 4.117	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01385 / 0.01484	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1308	0.1308	0.3135	6 / 6	0.2357
Inorganic	Barium	mg/kg	0.04473 / 0.04807	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.02769 / 0.03135	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.4047 / 0.422	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00724 / 0.00794	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		144.5	144.5	342.8	6 / 6	250.4
Inorganic	Chromium	mg/kg	0.1214 / 0.1317	ND	0.2508	0.2508	1 / 6	0.2508
Inorganic	Cobalt	mg/kg	0.01342 / 0.01442	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1498	0.1498	0.3344	6 / 6	0.2539
Inorganic	Iron	mg/kg	11.48 / 12.44	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02556 / 0.02926	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		269.6	269.6	311	6 / 6	289
Inorganic	Manganese	mg/kg	0.1619 / 0.1756	ND	0.1896	0.2376	3 / 6	0.219
Inorganic	Mercury	mg/kg		0.08569	0.08569	0.1685	6 / 6	0.1338
Inorganic	Molybdenum	mg/kg	0.03408 / 0.03587	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09372 / 0.1003	ND	0.1233	0.1233	1 / 6	0.1233
Inorganic	Potassium	mg/kg		3724	3724	4494	6 / 6	4090
Inorganic	Selenium	mg/kg		0.422	0.422	0.5852	6 / 6	0.4977
Inorganic	Silver	mg/kg	0.00277 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		384.6	384.6	483.8	6 / 6	440.2
Inorganic	Strontium	mg/kg		0.06541	0.06541	0.2299	6 / 6	0.1413
Inorganic	Thallium	mg/kg	0.01321 / 0.01797	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0426 / 0.04807	ND	0.08151	0.08151	1 / 6	0.08151
Inorganic	Zinc	mg/kg		4.136	4.136	8.694	6 / 6	7.422
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	0.069	0.069	1 / 2	0.069
Organic-PCBs	PCB-1260	mg/kg		0.0953	0.0953	0.192	2 / 2	0.1437

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-78: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0083	0.0083	1 / 2	0.0083
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0054	0.0054	1 / 2	0.0054
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	0.0036	0.0036	1 / 2	0.0036
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1	1	1.9	8 / 8	1.35
Physical Properties	% Moisture	%		78.4	78.4	79.4	8 / 8	78.85
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.192	0.192	0.289	2 / 2	0.2405
Speciation	Arsenite	mg/kg	0.0008 / 0.0008	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg		0.192	0.192	0.289	2 / 2	0.2405

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-79: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.73 / 4.118	ND	6.512	6.512	1 / 4	6.512
Inorganic	Antimony	mg/kg	0.01328 / 0.01495	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.2228	0.2228	0.488	6 / 6	0.349
Inorganic	Barium	mg/kg		0.117	0.117	1.495	6 / 6	0.8361
Inorganic	Beryllium	mg/kg	0.027 / 0.06161	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3825 / 0.427	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00698 / 0.00748	ND	0.01525	0.01525	1 / 6	0.01525
Inorganic	Calcium	mg/kg		4658	4658	35685	6 / 6	25407
Inorganic	Chromium	mg/kg	0.117 / 0.1312	ND	0.1918	0.1918	1 / 6	0.1918
Inorganic	Cobalt	mg/kg	0.01302 / 0.01343	ND	0.01645	0.0296	4 / 6	0.01984
Inorganic	Copper	mg/kg		0.2925	0.2925	0.8514	6 / 6	0.5046
Inorganic	Iron	mg/kg		13.76	13.76	19.83	5 / 5	15.76
Inorganic	Lead	mg/kg	0.02475 / 0.02838	ND	0.03965	0.03965	1 / 6	0.03965
Inorganic	Magnesium	mg/kg		357.8	357.8	771.7	6 / 6	621
Inorganic	Manganese	mg/kg		0.5175	0.5175	4.963	6 / 6	3.043
Inorganic	Mercury	mg/kg		0.04485	0.04485	0.07625	6 / 6	0.06
Inorganic	Molybdenum	mg/kg	0.0315 / 0.0366	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.1007	ND	0.09867	0.09867	1 / 6	0.09867
Inorganic	Potassium	mg/kg		2335	2335	3780	6 / 6	2625
Inorganic	Selenium	mg/kg		0.4275	0.4275	0.74	6 / 6	0.62
Inorganic	Silver	mg/kg	0.00269 / 0.00299	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		616.5	616.5	2028	6 / 6	1607
Inorganic	Strontium	mg/kg		3.645	3.645	30.2	6 / 6	19.73
Inorganic	Thallium	mg/kg	0.0126 / 0.02427	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04144 / 0.04575	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg	2.013 / 10.01	ND	18.33	23.23	5 / 6	20.17
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.0593	0.0593	0.143	2 / 2	0.1012
Organic-PCBs	PCB-1260	mg/kg		0.166	0.166	0.432	2 / 2	0.299

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-79: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 3.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0101	0.0101	0.0229	2 / 2	0.0165
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0124	0.0124	1 / 2	0.0124
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		1.5	1.5	6.3	8 / 8	3.263
Physical Properties	% Moisture	%		69.5	69.5	77.8	8 / 8	73.56
Speciation	Arsenate	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.182	0.182	0.197	2 / 2	0.1895
Speciation	Arsenite	mg/kg	0.0008 / 0.002	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.004	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg		0.182	0.182	0.197	2 / 2	0.1895

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-80: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.876 / 4.038	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01391 / 0.01463	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.174	0.174	0.3059	6 / 6	0.249
Inorganic	Barium	mg/kg	0.04332 / 0.04598	ND	0.104	0.5871	3 / 6	0.2669
Inorganic	Beryllium	mg/kg	0.0578 / 0.06015	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.4 / 0.418	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.00762	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		782	782	21414	6 / 6	5027
Inorganic	Chromium	mg/kg	0.122 / 0.1277	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0136 / 0.01421	ND	0.01761	0.01761	1 / 6	0.01761
Inorganic	Copper	mg/kg		0.196	0.196	0.5562	6 / 6	0.307
Inorganic	Iron	mg/kg	11.65 / 12.13	ND	17.58	17.58	1 / 6	17.58
Inorganic	Lead	mg/kg	0.026 / 0.02884	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		291.8	291.8	550	6 / 6	347
Inorganic	Manganese	mg/kg		0.228	0.228	2.719	6 / 6	0.6891
Inorganic	Mercury	mg/kg		0.04017	0.04017	0.138	6 / 6	0.09534
Inorganic	Molybdenum	mg/kg	0.03399 / 0.03553	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09348 / 0.09888	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2426	2426	3635	6 / 6	3328
Inorganic	Selenium	mg/kg		0.48	0.48	0.6612	6 / 6	0.5626
Inorganic	Silver	mg/kg	0.00274 / 0.00293	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		492.5	492.5	1650	6 / 6	739.2
Inorganic	Strontium	mg/kg		0.5472	0.5472	15.82	6 / 6	3.843
Inorganic	Thallium	mg/kg	0.01358 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04332 / 0.04635	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.351	6.351	16.22	6 / 6	9.712
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.1	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	0.127	0.127	1 / 2	0.127
Organic-PCBs	PCB-1260	mg/kg		0.0903	0.0903	0.383	2 / 2	0.2367

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-80: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 3.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	0.0217	0.0217	1 / 2	0.0217
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.0131	0.0131	1 / 2	0.0131
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	0.0056	0.0056	1 / 2	0.0056
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	0.0034	0.0034	1 / 2	0.0034
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.27	0.27	6.9	8 / 8	2.514
Physical Properties	% Moisture	%		69.1	69.1	80.1	8 / 8	76.8
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.198	0.198	0.245	2 / 2	0.2215
Speciation	Arsenite	mg/kg	0.0007 / 0.003	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg		0.198	0.198	0.245	2 / 2	0.2215

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-81: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	7.082 / 18.8	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.01277 / 0.0147	ND	0.03	0.03	1 / 3	0.03
Inorganic	Arsenic	mg/kg		0.4704	0.4704	0.6192	3 / 3	0.5299
Inorganic	Barium	mg/kg		0.5418	0.5418	0.67	3 / 3	0.6097
Inorganic	Beryllium	mg/kg	0.05031 / 0.14	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.7353 / 1.9	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.01471	0.01471	0.02264	3 / 3	0.01878
Inorganic	Calcium	mg/kg		24962	24962	43400	3 / 3	31999
Inorganic	Chromium	mg/kg	0.2245 / 0.2587	ND	0.2283	1.3	2 / 3	0.7642
Inorganic	Cobalt	mg/kg	0.02477 / 0.02852	ND	0.1	0.1	1 / 3	0.1
Inorganic	Copper	mg/kg		0.4116	0.4116	3.2	3 / 3	1.346
Inorganic	Iron	mg/kg	21.29 / 24.49	ND	1440	1440	1 / 3	1440
Inorganic	Lead	mg/kg	0.02477 / 0.02822	ND	0.58	0.58	1 / 3	0.58
Inorganic	Magnesium	mg/kg		596	596	768	3 / 3	663.4
Inorganic	Manganese	mg/kg		3.019	3.019	15.6	3 / 3	7.284
Inorganic	Mercury	mg/kg		0.027	0.027	0.04257	3 / 3	0.03397
Inorganic	Molybdenum	mg/kg	0.03096 / 0.03528	ND	0.25	0.25	1 / 3	0.25
Inorganic	Nickel	mg/kg	0.1742 / 0.1999	ND	0.93	0.93	1 / 3	0.93
Inorganic	Potassium	mg/kg		1911	1911	2287	3 / 3	2113
Inorganic	Selenium	mg/kg		0.588	0.588	0.9675	3 / 3	0.7552
Inorganic	Silver	mg/kg	0.00255 / 0.00294	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1517	1517	2070	3 / 3	1722
Inorganic	Strontium	mg/kg		18	18	28.7	3 / 3	21.82
Inorganic	Thallium	mg/kg	0.012 / 0.01411	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.08127 / 0.21	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		20.3	20.3	27.01	3 / 3	22.94
Physical Properties	% Lipids	%		5.6	5.6	5.6	1 / 1	5.6
Physical Properties	% Moisture	%		65.7	65.7	65.7	1 / 1	65.7

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-82: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.586 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01298 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.2	0.2	0.49	6 / 6	0.3409
Inorganic	Barium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0264 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.426	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		89.3	89.3	875	6 / 6	297.2
Inorganic	Chromium	mg/kg	0.11 / 0.1278	ND	0.16	0.43	2 / 6	0.295
Inorganic	Cobalt	mg/kg	0.01254 / 0.01427	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1848	0.1848	0.31	6 / 6	0.2161
Inorganic	Iron	mg/kg	10.8 / 12.3	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0242 / 0.028	ND	0.044	0.044	1 / 6	0.044
Inorganic	Magnesium	mg/kg		245	245	306.4	6 / 6	283.7
Inorganic	Manganese	mg/kg	0.15 / 0.1725	ND	0.18	0.18	1 / 6	0.18
Inorganic	Mercury	mg/kg		0.029	0.029	0.085	6 / 6	0.05476
Inorganic	Molybdenum	mg/kg	0.0308 / 0.03621	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.2343	ND	0.11	0.29	2 / 6	0.2
Inorganic	Potassium	mg/kg		3510	3510	4151	6 / 6	3947
Inorganic	Selenium	mg/kg		0.572	0.572	1.021	6 / 6	0.6935
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		337	337	417.4	6 / 6	384.2
Inorganic	Strontium	mg/kg		0.043	0.043	0.79	6 / 6	0.2113
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.37	7.37	20.3	6 / 6	11.06
Physical Properties	% Lipids	%		0.42	0.42	2.2	6 / 6	1.25
Physical Properties	% Moisture	%		77.8	77.8	80.3	6 / 6	78.98

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-83: TVA SAP Sampling, Spring 2010 - Largemouth Bass Carcass at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 3.9	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.32	0.32	0.43	3 / 3	0.37
Inorganic	Barium	mg/kg		0.86	0.86	1	3 / 3	0.9367
Inorganic	Beryllium	mg/kg	0.027 / 0.14	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 2	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0074	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		31500	31500	43400	3 / 3	35600
Inorganic	Chromium	mg/kg		0.18	0.18	0.24	3 / 3	0.21
Inorganic	Cobalt	mg/kg		0.017	0.017	0.019	3 / 3	0.018
Inorganic	Copper	mg/kg		0.31	0.31	0.4	3 / 3	0.3533
Inorganic	Iron	mg/kg		12	12	21.3	3 / 3	15.57
Inorganic	Lead	mg/kg	0.025 / 0.027	ND	0.026	0.026	1 / 3	0.026
Inorganic	Magnesium	mg/kg		727	727	859	3 / 3	772
Inorganic	Manganese	mg/kg		2.8	2.8	7.6	3 / 3	5.667
Inorganic	Mercury	mg/kg		0.02	0.02	0.042	3 / 3	0.03133
Inorganic	Molybdenum	mg/kg	0.032 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.088 / 0.095	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2110	2110	2460	3 / 3	2263
Inorganic	Selenium	mg/kg		0.51	0.51	0.54	3 / 3	0.5233
Inorganic	Silver	mg/kg	0.0026 / 0.0028	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1750	1750	1980	3 / 3	1887
Inorganic	Strontium	mg/kg		22	22	32.9	3 / 3	26.9
Inorganic	Thallium	mg/kg	0.012 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.041 / 0.044	ND	0.066	0.066	1 / 3	0.066
Inorganic	Zinc	mg/kg		22.2	22.2	28.4	3 / 3	25.23
Speciation	Arsenate	mg/kg	0.007 / 0.007	ND	ND	ND	0 / 1	0
Speciation	Arsenic (from speciation lab)	mg/kg		0.467	0.467	0.467	1 / 1	0.467
Speciation	Arsenite	mg/kg	0.002 / 0.002	ND	ND	ND	0 / 1	0
Speciation	Inorganic Arsenic	mg/kg	0.007 / 0.007	ND	ND	ND	0 / 1	0
Speciation	Organic Arsenic	mg/kg		0.467	0.467	0.467	1 / 1	0.467

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-84: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.059	0.059	0.33	6 / 6	0.2082
Inorganic	Barium	mg/kg	0.042 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		157	157	450	6 / 6	291.2
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.19	0.19	0.54	6 / 6	0.365
Inorganic	Iron	mg/kg	11.1 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		259	259	326	6 / 6	297.3
Inorganic	Manganese	mg/kg	0.16 / 0.17	ND	0.17	0.28	4 / 6	0.205
Inorganic	Mercury	mg/kg		0.042	0.042	0.4	6 / 6	0.1442
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.098	ND	0.1	0.13	2 / 6	0.115
Inorganic	Potassium	mg/kg		3680	3680	4180	6 / 6	3958
Inorganic	Selenium	mg/kg		0.39	0.39	0.54	6 / 6	0.4417
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		340	340	553	6 / 6	447.7
Inorganic	Strontium	mg/kg		0.086	0.086	0.34	6 / 6	0.1913
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.6	5.6	17.5	6 / 6	10.33
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 2	0
Organic-PCBs	PCB-1254	mg/kg		0.06	0.06	0.0833	2 / 2	0.07165
Organic-PCBs	PCB-1260	mg/kg		0.222	0.222	0.234	2 / 2	0.228

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-84: TVA SAP Sampling, Spring 2010 - Largemouth Bass Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0078	0.0078	0.018	2 / 2	0.0129
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	0.005	0.005	1 / 2	0.005
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 2	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 2	0
Physical Properties	% Lipids	%		0.42	0.42	2.2	8 / 8	1.134
Physical Properties	% Moisture	%		76.6	76.6	80.4	8 / 8	78.94
Speciation	Arsenate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.16 / 0.168	ND	ND	ND	0 / 2	0
Speciation	Arsenite	mg/kg	0.0006 / 0.0007	ND	ND	ND	0 / 2	0
Speciation	Inorganic Arsenic	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 2	0
Speciation	Organic Arsenic	mg/kg	0.16 / 0.168	ND	ND	ND	0 / 2	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-85: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.027 / 0.028	ND	0.047	0.11	5 / 6	0.0714
Inorganic	Barium	mg/kg	0.043 / 0.32	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.39 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0072 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		110	110	1960	6 / 6	786.7
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.23	0.23	0.35	6 / 6	0.2783
Inorganic	Iron	mg/kg	11.4 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		228	228	305	6 / 6	256.3
Inorganic	Manganese	mg/kg		0.17	0.17	1.2	6 / 6	0.5883
Inorganic	Mercury	mg/kg		0.042	0.042	0.067	6 / 6	0.05067
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.092 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3390	3390	3930	6 / 6	3687
Inorganic	Selenium	mg/kg		0.58	0.58	0.68	6 / 6	0.6233
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		279	279	396	6 / 6	333.2
Inorganic	Strontium	mg/kg		0.15	0.15	2	6 / 6	0.6783
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.043 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		10	10	21	6 / 6	13.1
Physical Properties	% Lipids	%		0.14	0.14	1.1	6 / 6	0.3583
Physical Properties	% Moisture	%		81.3	81.3	83.8	2 / 2	82.55

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-86: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.2	ND	5.8	5.8	1 / 6	5.8
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.026 / 0.028	ND	0.045	0.093	5 / 6	0.068
Inorganic	Barium	mg/kg	0.043 / 0.11	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.028 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.39 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0071 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		85.4	85.4	723	6 / 6	496.2
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.17	0.17	0.3	6 / 6	0.2383
Inorganic	Iron	mg/kg	11.3 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		252	252	278	6 / 6	264.5
Inorganic	Manganese	mg/kg	0.16 / 0.18	ND	0.21	0.7	4 / 6	0.39
Inorganic	Mercury	mg/kg		0.031	0.031	0.095	6 / 6	0.055
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.091 / 0.1	ND	0.098	0.098	1 / 6	0.098
Inorganic	Potassium	mg/kg		3640	3640	3980	6 / 6	3797
Inorganic	Selenium	mg/kg		0.49	0.49	0.65	6 / 6	0.5633
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		289	289	325	6 / 6	303.7
Inorganic	Strontium	mg/kg	0.041 / 0.042	ND	0.2	0.49	5 / 6	0.384
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.043 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.2	8.2	15.4	6 / 6	11.8
Physical Properties	% Lipids	%		0.39	0.39	0.65	6 / 6	0.53
Physical Properties	% Moisture	%		81	81	84.4	6 / 6	82.02

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-87: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.08	0.08	0.15	6 / 6	0.1073
Inorganic	Barium	mg/kg	0.041 / 0.045	ND	0.048	0.16	3 / 6	0.09433
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.41	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.0076	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		88.2	88.2	799	6 / 6	274
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.14	0.14	1 / 6	0.14
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.13 / 0.14	ND	0.15	0.4	5 / 6	0.268
Inorganic	Iron	mg/kg	10.8 / 12.1	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		226	226	281	6 / 6	243.2
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	0.22	0.48	2 / 6	0.35
Inorganic	Mercury	mg/kg		0.037	0.037	0.1	6 / 6	0.06733
Inorganic	Molybdenum	mg/kg	0.032 / 0.035	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.098	ND	0.1	0.1	1 / 6	0.1
Inorganic	Potassium	mg/kg		3530	3530	3860	6 / 6	3670
Inorganic	Selenium	mg/kg		0.69	0.69	1.2	6 / 6	0.8933
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		285	285	404	6 / 6	327.5
Inorganic	Strontium	mg/kg		0.048	0.048	0.69	6 / 6	0.2223
Inorganic	Thallium	mg/kg	0.013 / 0.017	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.7	8.7	17.2	6 / 6	11.18
Physical Properties	% Lipids	%		0.12	0.12	0.97	6 / 6	0.41
Physical Properties	% Moisture	%		79.7	79.7	82.6	6 / 6	81.78

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-88: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4 / 4.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.27	5 / 5	0.23
Inorganic	Barium	mg/kg	0.045 / 0.047	ND	0.13	0.13	1 / 5	0.13
Inorganic	Beryllium	mg/kg	0.029 / 0.03	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.41 / 0.42	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0075 / 0.0078	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		110	110	859	5 / 5	306.8
Inorganic	Chromium	mg/kg	0.13 / 0.13	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg		0.24	0.24	0.37	5 / 5	0.31
Inorganic	Iron	mg/kg	11.9 / 12.3	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.028 / 0.028	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		245	245	268	5 / 5	261.2
Inorganic	Manganese	mg/kg	0.17 / 0.17	ND	0.24	0.24	1 / 5	0.24
Inorganic	Mercury	mg/kg		0.047	0.047	0.088	5 / 5	0.0692
Inorganic	Molybdenum	mg/kg	0.035 / 0.036	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.097 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3370	3370	3660	5 / 5	3474
Inorganic	Selenium	mg/kg		0.88	0.88	1.3	5 / 5	1.048
Inorganic	Silver	mg/kg	0.0029 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		310	310	461	5 / 5	367.4
Inorganic	Strontium	mg/kg		0.069	0.069	0.67	5 / 5	0.225
Inorganic	Thallium	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.045 / 0.047	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		10.9	10.9	18.9	5 / 5	14.78
Physical Properties	% Lipids	%		0.16	0.16	0.41	5 / 5	0.262
Physical Properties	% Moisture	%		81.1	81.1	83.5	5 / 5	82.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-89: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.5 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.13	0.13	0.31	6 / 6	0.2083
Inorganic	Barium	mg/kg	0.041 / 0.048	ND	0.052	0.29	4 / 6	0.1253
Inorganic	Beryllium	mg/kg	0.026 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0067 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		95	95	3060	6 / 6	802.5
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.012 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.17	0.17	0.25	6 / 6	0.2033
Inorganic	Iron	mg/kg	10.7 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		248	248	280	6 / 6	264.3
Inorganic	Manganese	mg/kg	0.15 / 0.18	ND	0.17	0.78	3 / 6	0.4467
Inorganic	Mercury	mg/kg		0.034	0.034	0.12	6 / 6	0.06167
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.086 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3460	3460	3830	6 / 6	3608
Inorganic	Selenium	mg/kg		0.7	0.7	0.95	6 / 6	0.785
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		276	276	478	6 / 6	350.8
Inorganic	Strontium	mg/kg	0.039 / 0.046	ND	0.097	1.9	5 / 6	0.5734
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		11.3	11.3	18.1	6 / 6	13.67
Physical Properties	% Lipids	%		0.17	0.17	0.6	6 / 6	0.3467
Physical Properties	% Moisture	%		79	79	82.5	6 / 6	81

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-90: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Clinch River Mile 25.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.1	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.22	0.22	0.28	3 / 3	0.2433
Inorganic	Barium	mg/kg	0.042 / 0.047	ND	0.076	0.076	1 / 3	0.076
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0078	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		113	113	482	3 / 3	258
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg		0.23	0.23	0.26	3 / 3	0.2467
Inorganic	Iron	mg/kg	11 / 12.3	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.026 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Magnesium	mg/kg		271	271	294	3 / 3	284.7
Inorganic	Manganese	mg/kg	0.16 / 0.17	ND	0.29	0.29	1 / 3	0.29
Inorganic	Mercury	mg/kg		0.029	0.029	0.094	3 / 3	0.055
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.089 / 0.094	ND	0.17	0.17	1 / 3	0.17
Inorganic	Potassium	mg/kg		3370	3370	3920	3 / 3	3673
Inorganic	Selenium	mg/kg		0.58	0.58	1.1	3 / 3	0.8367
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		351	351	436	3 / 3	397.3
Inorganic	Strontium	mg/kg		0.049	0.049	0.32	3 / 3	0.163
Inorganic	Thallium	mg/kg	0.013 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		8	8	17.3	3 / 3	13.03
Physical Properties	% Lipids	%		0.36	0.36	0.37	3 / 3	0.3633
Physical Properties	% Moisture	%		78.1	78.1	80.8	2 / 2	79.45

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-91: TVA SAP Sampling, Spring 2010 - Red Ear Sunfish Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.635 / 4.152	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01311 / 0.01505	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.152	0.152	0.3154	6 / 6	0.2264
Inorganic	Barium	mg/kg	0.0415 / 0.04732	ND	0.05184	0.09231	2 / 6	0.07208
Inorganic	Beryllium	mg/kg	0.02656 / 0.03114	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3818 / 0.4325	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00697 / 0.00796	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		110.4	110.4	805.5	6 / 6	309.1
Inorganic	Chromium	mg/kg	0.1145 / 0.1315	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01278 / 0.01453	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.1311 / 0.1488	ND	0.1606	0.2688	5 / 6	0.2002
Inorganic	Iron	mg/kg	10.94 / 12.49	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0249 / 0.02941	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		217.5	217.5	278.9	6 / 6	250.6
Inorganic	Manganese	mg/kg	0.1544 / 0.173	ND	0.4344	0.4344	1 / 6	0.4344
Inorganic	Mercury	mg/kg		0.03806	0.03806	0.1031	6 / 6	0.0611
Inorganic	Molybdenum	mg/kg	0.03154 / 0.03633	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08798 / 0.1003	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3386	3386	3763	6 / 6	3592
Inorganic	Selenium	mg/kg		0.4901	0.4901	1.286	6 / 6	1.029
Inorganic	Silver	mg/kg	0.00266 / 0.00294	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		282.2	282.2	621.9	6 / 6	412.3
Inorganic	Strontium	mg/kg		0.07093	0.07093	0.6516	6 / 6	0.2061
Inorganic	Thallium	mg/kg	0.01245 / 0.01517	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0415 / 0.04732	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.687	8.687	18.53	6 / 6	12.67
Physical Properties	% Lipids	%		0.19	0.19	0.61	6 / 6	0.285
Physical Properties	% Moisture	%		80.8	80.8	83.4	6 / 6	82.5

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-92: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.09702	0.09702	0.18	6 / 6	0.1395
Inorganic	Barium	mg/kg	0.041 / 0.046	ND	0.05346	0.12	2 / 6	0.08673
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		141	141	645.5	6 / 6	305.8
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.17	0.23	2 / 6	0.2
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.13 / 0.15	ND	0.16	0.1841	4 / 6	0.1732
Inorganic	Iron	mg/kg	10.8 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		260	260	300	6 / 6	277.2
Inorganic	Manganese	mg/kg	0.15 / 0.18	ND	0.2	0.2376	2 / 6	0.2188
Inorganic	Mercury	mg/kg		0.0396	0.0396	0.11	6 / 6	0.05887
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.087 / 0.098	ND	0.13	0.16	3 / 6	0.1467
Inorganic	Potassium	mg/kg		3600	3600	4100	6 / 6	3910
Inorganic	Selenium	mg/kg		0.42	0.42	0.49	6 / 6	0.4404
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		252	252	294	6 / 6	270.2
Inorganic	Strontium	mg/kg		0.067	0.067	0.4356	6 / 6	0.205
Inorganic	Thallium	mg/kg	0.012 / 0.018	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.263	4.263	7.7	6 / 6	6.398
Physical Properties	% Lipids	%		0.48	0.48	2.5	6 / 6	0.9017
Physical Properties	% Moisture	%		77.7	77.7	80.9	6 / 6	79.8

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-93: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	4 / 4.1	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.11	0.11	0.15	3 / 3	0.13
Inorganic	Barium	mg/kg	0.046 / 0.046	ND	0.12	0.12	1 / 3	0.12
Inorganic	Beryllium	mg/kg	0.03 / 0.031	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.41 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0076 / 0.0079	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		161	161	2840	3 / 3	1080
Inorganic	Chromium	mg/kg	0.13 / 0.13	ND	0.15	0.15	1 / 3	0.15
Inorganic	Cobalt	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Copper	mg/kg		0.15	0.15	0.25	3 / 3	0.19
Inorganic	Iron	mg/kg	12.1 / 12.5	ND	ND	ND	0 / 3	0
Inorganic	Lead	mg/kg	0.028 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Magnesium	mg/kg		260	260	318	3 / 3	283
Inorganic	Manganese	mg/kg	0.17 / 0.17	ND	0.47	0.47	1 / 3	0.47
Inorganic	Mercury	mg/kg		0.052	0.052	0.061	3 / 3	0.058
Inorganic	Molybdenum	mg/kg	0.035 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.098 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		3760	3760	4040	3 / 3	3883
Inorganic	Selenium	mg/kg		0.34	0.34	0.37	3 / 3	0.3533
Inorganic	Silver	mg/kg	0.0029 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		200	200	296	3 / 3	251
Inorganic	Strontium	mg/kg		0.1	0.1	1.7	3 / 3	0.6433
Inorganic	Thallium	mg/kg	0.014 / 0.019	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.046 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Zinc	mg/kg		6.3	6.3	20	3 / 3	11.1
Physical Properties	% Lipids	%		0.43	0.43	1.2	3 / 3	0.91
Physical Properties	% Moisture	%		80.2	80.2	80.9	3 / 3	80.47

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-94: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.9 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.12	0.12	0.23	6 / 6	0.165
Inorganic	Barium	mg/kg	0.045 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.029 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0074 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		98.2	98.2	400	6 / 6	195.9
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.14 / 0.15	ND	0.15	2.7	5 / 6	0.86
Inorganic	Iron	mg/kg	11.7 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.027 / 0.029	ND	0.044	0.098	2 / 6	0.071
Inorganic	Magnesium	mg/kg		265	265	277	6 / 6	269.8
Inorganic	Manganese	mg/kg	0.17 / 0.18	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.063	0.063	0.16	6 / 6	0.1087
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.095 / 0.1	ND	0.2	0.51	2 / 6	0.355
Inorganic	Potassium	mg/kg		3620	3620	4000	6 / 6	3815
Inorganic	Selenium	mg/kg		0.53	0.53	0.69	6 / 6	0.5817
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		264	264	389	6 / 6	316
Inorganic	Strontium	mg/kg		0.049	0.049	0.34	6 / 6	0.1417
Inorganic	Thallium	mg/kg	0.013 / 0.025	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.044 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.1	6.1	9.5	6 / 6	8.167
Physical Properties	% Lipids	%		0.22	0.22	0.68	6 / 6	0.4367
Physical Properties	% Moisture	%		78	78	81.9	6 / 6	80.68

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-95: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.22	0.22	0.3	6 / 6	0.2733
Inorganic	Barium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		123	123	580	6 / 6	276.2
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.16	0.16	0.22	6 / 6	0.195
Inorganic	Iron	mg/kg	11 / 12.4	ND	17.5	17.5	1 / 6	17.5
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		247	247	336	6 / 6	288.8
Inorganic	Manganese	mg/kg	0.16 / 0.18	ND	0.17	0.22	2 / 6	0.195
Inorganic	Mercury	mg/kg		0.028	0.028	0.13	6 / 6	0.06333
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3550	3550	4460	6 / 6	4010
Inorganic	Selenium	mg/kg		0.17	0.17	0.63	6 / 6	0.4083
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		263	263	427	6 / 6	320.3
Inorganic	Strontium	mg/kg		0.058	0.058	0.47	6 / 6	0.195
Inorganic	Thallium	mg/kg	0.013 / 0.038	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.7	5.7	12.1	6 / 6	7.15
Physical Properties	% Lipids	%		0.86	0.86	3.8	6 / 6	1.677
Physical Properties	% Moisture	%		77.5	77.5	82.5	6 / 6	79.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-96: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.633 / 4.137	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01323 / 0.01491	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.2388	0.2388	0.357	6 / 6	0.3179
Inorganic	Barium	mg/kg	0.042 / 0.0483	ND	0.054	0.054	1 / 6	0.054
Inorganic	Beryllium	mg/kg	0.0273 / 0.0315	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.378 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00693 / 0.00798	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		117.2	117.2	1337	6 / 6	396.7
Inorganic	Chromium	mg/kg	0.1155 / 0.1323	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01281 / 0.01449	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.1706	0.1706	0.2144	6 / 6	0.1929
Inorganic	Iron	mg/kg	10.96 / 12.47	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.0252 / 0.0294	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		252	252	313.2	6 / 6	279.6
Inorganic	Manganese	mg/kg	0.1554 / 0.1764	ND	0.432	0.432	1 / 6	0.432
Inorganic	Mercury	mg/kg		0.0336	0.0336	0.1771	6 / 6	0.1057
Inorganic	Molybdenum	mg/kg	0.0315 / 0.03582	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.0882 / 0.1008	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3696	3696	4212	6 / 6	3964
Inorganic	Selenium	mg/kg		0.2985	0.2985	0.441	6 / 6	0.3564
Inorganic	Silver	mg/kg	0.00273 / 0.00299	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		265.2	265.2	325.6	6 / 6	303.9
Inorganic	Strontium	mg/kg		0.06432	0.06432	0.9072	6 / 6	0.2493
Inorganic	Thallium	mg/kg	0.01367 / 0.0294	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.0483	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.234	5.234	6.825	6 / 6	6.281
Physical Properties	% Lipids	%		0.6	0.6	3.2	6 / 6	1.617
Physical Properties	% Moisture	%		77.9	77.9	80.1	6 / 6	79.05

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table J-97: TVA SAP Sampling, Spring 2010 - White Crappie Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.5 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.25	0.25	0.3	6 / 6	0.2767
Inorganic	Barium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.36 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0066 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		126	126	286	6 / 6	176.3
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.12	0.12	1 / 6	0.12
Inorganic	Cobalt	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.21	0.21	0.44	6 / 6	0.2867
Inorganic	Iron	mg/kg	10.5 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.024 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		259	259	315	6 / 6	283.8
Inorganic	Manganese	mg/kg	0.15 / 0.16	ND	0.21	0.21	1 / 6	0.21
Inorganic	Mercury	mg/kg		0.014	0.014	0.055	6 / 6	0.0345
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.085 / 0.1	ND	0.11	0.11	1 / 6	0.11
Inorganic	Potassium	mg/kg		3710	3710	4350	6 / 6	4053
Inorganic	Selenium	mg/kg		0.24	0.24	0.32	6 / 6	0.2783
Inorganic	Silver	mg/kg	0.0025 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		297	297	402	6 / 6	338.5
Inorganic	Strontium	mg/kg		0.05	0.05	0.17	6 / 6	0.09
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.6	5.6	8.9	6 / 6	7
Physical Properties	% Lipids	%		1.2	1.2	2.4	6 / 6	1.933
Physical Properties	% Moisture	%		77.5	77.5	79	6 / 6	78.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

APPENDIX K

Tennessee Aquarium / Appalachian State University (Splits), Fall 2010

Table K- 1: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Emory River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.9 / 0.94	ND	1.2	4.5	2 / 3	2.85
Inorganic	Aluminum (6020)	mg/kg	3.8 / 4.1	ND	4.1	4.1	1 / 3	4.1
Inorganic	Antimony (6010)	mg/kg	0.22 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.11	0.11	0.18	3 / 3	0.14
Inorganic	Arsenic (6020)	mg/kg		0.15	0.15	0.2	3 / 3	0.1733
Inorganic	Barium (6010)	mg/kg	0.041 / 0.044	ND	0.048	0.15	2 / 3	0.099
Inorganic	Barium (6020)	mg/kg	0.043 / 0.047	ND	0.13	0.13	1 / 3	0.13
Inorganic	Beryllium (6010)	mg/kg	0.015 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.038 / 0.041	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.39 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.024 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0072 / 0.0078	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		105	105	376	3 / 3	202
Inorganic	Calcium (6020)	mg/kg		111	111	359	3 / 3	199.7
Inorganic	Chromium (6010)	mg/kg		0.05	0.05	0.11	3 / 3	0.07933
Inorganic	Chromium (6020)	mg/kg	0.12 / 0.13	ND	0.13	0.13	1 / 3	0.13
Inorganic	Cobalt (6010)	mg/kg	0.032 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg	0.013 / 0.014	ND	0.018	0.018	1 / 3	0.018
Inorganic	Copper (6010)	mg/kg		0.29	0.29	0.33	3 / 3	0.3067
Inorganic	Copper (6020)	mg/kg		0.29	0.29	0.36	3 / 3	0.3233
Inorganic	Iron (6010)	mg/kg		3	3	9.3	3 / 3	5.3
Inorganic	Iron (6020)	mg/kg	11.4 / 12.4	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.088 / 0.095	ND	ND	ND	0 / 3	0
Inorganic	Lead (6020)	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Magnesium (6010)	mg/kg		288	288	309	3 / 3	301.3
Inorganic	Magnesium (6020)	mg/kg		303	303	320	3 / 3	313.7
Inorganic	Manganese (6010)	mg/kg	0.13 / 0.21	ND	ND	ND	0 / 3	0
Inorganic	Manganese (6020)	mg/kg	0.16 / 0.17	ND	0.18	0.22	2 / 3	0.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 1: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Emory River Mile 3.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.11	0.11	0.2	3 / 3	0.1567
Inorganic	Mercury (7471)	mg/kg		0.18	0.18	0.32	3 / 3	0.26
Inorganic	Molybdenum (6010)	mg/kg	0.16 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.026 / 0.028	ND	0.041	0.041	1 / 3	0.041
Inorganic	Nickel (6020)	mg/kg	0.092 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		3730	3730	4290	3 / 3	4013
Inorganic	Potassium (6020)	mg/kg		4150	4150	4660	3 / 3	4370
Inorganic	Selenium (6010)	mg/kg	0.15 / 0.94	ND	1.1	1.1	2 / 3	1.1
Inorganic	Selenium (6020)	mg/kg		0.6	0.6	0.76	3 / 3	0.6567
Inorganic	Silver (6010)	mg/kg	0.041 / 0.044	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		378	378	425	3 / 3	407.3
Inorganic	Sodium (6020)	mg/kg		335	335	429	3 / 3	382
Inorganic	Strontium (6010)	mg/kg		0.047	0.047	0.3	3 / 3	0.134
Inorganic	Strontium (6020)	mg/kg		0.054	0.054	0.32	3 / 3	0.1457
Inorganic	Thallium (6010)	mg/kg	0.14 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6010)	mg/kg	0.031 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.043 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		4.7	4.7	9.2	3 / 3	6.533
Inorganic	Zinc (6020)	mg/kg		4.9	4.9	8.7	3 / 3	6.3
Physical Properties	% Lipids	%		0.32	0.32	0.6	3 / 3	0.4333
Physical Properties	% Moisture	%		77.6	77.6	79.3	3 / 6	78.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 2: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Emory River Mile 2.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.87 / 0.96	ND	1.2	1.2	1 / 3	1.2
Inorganic	Aluminum (6020)	mg/kg	3.7 / 4	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6010)	mg/kg	0.22 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.12	0.12	0.15	3 / 3	0.13
Inorganic	Arsenic (6020)	mg/kg		0.16	0.16	0.27	3 / 3	0.2067
Inorganic	Barium (6010)	mg/kg	0.04 / 0.044	ND	ND	ND	0 / 3	0
Inorganic	Barium (6020)	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6010)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.037 / 0.04	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.023 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.007 / 0.0077	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		171	171	312	3 / 3	239.7
Inorganic	Calcium (6020)	mg/kg		178	178	327	3 / 3	251
Inorganic	Chromium (6010)	mg/kg	0.028 / 0.031	ND	0.05	0.092	2 / 3	0.071
Inorganic	Chromium (6020)	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6010)	mg/kg	0.031 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg	0.013 / 0.014	ND	0.018	0.018	1 / 3	0.018
Inorganic	Copper (6010)	mg/kg		0.29	0.29	0.32	3 / 3	0.3067
Inorganic	Copper (6020)	mg/kg		0.29	0.29	0.32	3 / 3	0.3067
Inorganic	Iron (6010)	mg/kg		2	2	2.9	3 / 3	2.367
Inorganic	Iron (6020)	mg/kg	11.1 / 12.2	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.086 / 0.094	ND	ND	ND	0 / 3	0
Inorganic	Lead (6020)	mg/kg	0.026 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Magnesium (6010)	mg/kg		301	301	311	3 / 3	306.7
Inorganic	Magnesium (6020)	mg/kg		308	308	321	3 / 3	315
Inorganic	Manganese (6010)	mg/kg	0.15 / 0.19	ND	ND	ND	0 / 3	0
Inorganic	Manganese (6020)	mg/kg	0.16 / 0.17	ND	0.19	0.19	1 / 3	0.19

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 2: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Emory River Mile 2.0 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.051	0.051	0.14	3 / 3	0.09433
Inorganic	Mercury (7471)	mg/kg		0.086	0.086	0.23	3 / 3	0.152
Inorganic	Molybdenum (6010)	mg/kg	0.16 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.025 / 0.028	ND	0.034	0.034	1 / 3	0.034
Inorganic	Nickel (6020)	mg/kg	0.09 / 0.099	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		3910	3910	4160	3 / 3	4037
Inorganic	Potassium (6020)	mg/kg		4250	4250	4410	3 / 3	4343
Inorganic	Selenium (6010)	mg/kg		1.3	1.3	1.6	3 / 3	1.467
Inorganic	Selenium (6020)	mg/kg		0.91	0.91	1.3	3 / 3	1.103
Inorganic	Silver (6010)	mg/kg	0.04 / 0.044	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0027 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		448	448	569	3 / 3	526
Inorganic	Sodium (6020)	mg/kg		424	424	557	3 / 3	504.3
Inorganic	Strontium (6010)	mg/kg		0.088	0.088	0.27	3 / 3	0.1727
Inorganic	Strontium (6020)	mg/kg		0.085	0.085	0.28	3 / 3	0.175
Inorganic	Thallium (6010)	mg/kg	0.13 / 0.14	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg		0.013	0.013	0.022	3 / 3	0.01767
Inorganic	Vanadium (6010)	mg/kg	0.03 / 0.033	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		5.9	5.9	7.9	3 / 3	6.967
Inorganic	Zinc (6020)	mg/kg		6	6	7.6	3 / 3	6.9
Physical Properties	% Lipids	%		0.09	0.09	0.5	3 / 3	0.3533
Physical Properties	% Moisture	%		77.8	77.8	79.2	3 / 6	78.43

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 3: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.84 / 0.96	ND	4.2	4.2	1 / 3	4.2
Inorganic	Aluminum (6020)	mg/kg	3.6 / 4	ND	3.9	3.9	1 / 3	3.9
Inorganic	Antimony (6010)	mg/kg	0.21 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg	0.082 / 0.082	ND	0.18	0.19	2 / 3	0.185
Inorganic	Arsenic (6020)	mg/kg		0.13	0.13	0.19	3 / 3	0.17
Inorganic	Barium (6010)	mg/kg	0.038 / 0.044	ND	0.047	0.047	1 / 3	0.047
Inorganic	Barium (6020)	mg/kg	0.041 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6010)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.035 / 0.04	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.37 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.023 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0068 / 0.0077	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		110	110	1310	3 / 3	625.3
Inorganic	Calcium (6020)	mg/kg		118	118	1350	3 / 3	648
Inorganic	Chromium (6010)	mg/kg		0.046	0.046	0.06	3 / 3	0.05467
Inorganic	Chromium (6020)	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6010)	mg/kg	0.03 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Copper (6010)	mg/kg		0.27	0.27	0.33	3 / 3	0.31
Inorganic	Copper (6020)	mg/kg		0.29	0.29	0.35	3 / 3	0.3233
Inorganic	Iron (6010)	mg/kg		2	2	3.1	3 / 3	2.733
Inorganic	Iron (6020)	mg/kg	10.7 / 12.2	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.083 / 0.094	ND	ND	ND	0 / 3	0
Inorganic	Lead (6020)	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Magnesium (6010)	mg/kg		296	296	317	3 / 3	306
Inorganic	Magnesium (6020)	mg/kg		309	309	329	3 / 3	319
Inorganic	Manganese (6010)	mg/kg	0.16 / 0.34	ND	ND	ND	0 / 3	0
Inorganic	Manganese (6020)	mg/kg	0.15 / 0.17	ND	0.28	0.35	2 / 3	0.315

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 3: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Wet Weight) at Clinch River Mile 5.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.12	0.12	0.22	3 / 3	0.1833
Inorganic	Mercury (7471)	mg/kg		0.21	0.21	0.38	3 / 3	0.3
Inorganic	Molybdenum (6010)	mg/kg	0.15 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.024 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6020)	mg/kg	0.087 / 0.099	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		3700	3700	4090	3 / 3	3837
Inorganic	Potassium (6020)	mg/kg		3940	3940	4520	3 / 3	4157
Inorganic	Selenium (6010)	mg/kg	0.14 / 0.92	ND	1.1	1.2	2 / 3	1.15
Inorganic	Selenium (6020)	mg/kg		0.69	0.69	0.73	3 / 3	0.7067
Inorganic	Silver (6010)	mg/kg	0.038 / 0.044	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		456	456	573	3 / 3	495.7
Inorganic	Sodium (6020)	mg/kg		441	441	560	3 / 3	481.7
Inorganic	Strontium (6010)	mg/kg		0.063	0.063	0.97	3 / 3	0.4743
Inorganic	Strontium (6020)	mg/kg		0.058	0.058	1	3 / 3	0.476
Inorganic	Thallium (6010)	mg/kg	0.13 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg	0.012 / 0.014	ND	0.016	0.016	1 / 3	0.016
Inorganic	Vanadium (6010)	mg/kg	0.029 / 0.033	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.041 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		4.7	4.7	10	3 / 3	7.9
Inorganic	Zinc (6020)	mg/kg		4.6	4.6	10	3 / 3	7.867
Physical Properties	% Lipids	%		0.33	0.33	0.8	3 / 3	0.5367
Physical Properties	% Moisture	%		77.3	77.3	80.7	3 / 6	78.63

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 4: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Wet Weight) at Emory River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg		1.2	1.2	2.1	3 / 3	1.7
Inorganic	Aluminum (6020)	mg/kg	3.6 / 3.9	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6010)	mg/kg	0.21 / 0.23	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg	0.083 / 0.085	ND	0.09	0.09	1 / 3	0.09
Inorganic	Arsenic (6020)	mg/kg		0.045	0.045	0.13	3 / 3	0.089
Inorganic	Barium (6010)	mg/kg	0.039 / 0.04	ND	0.081	0.086	2 / 3	0.0835
Inorganic	Barium (6020)	mg/kg	0.041 / 0.042	ND	0.059	0.066	2 / 3	0.0625
Inorganic	Beryllium (6010)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.027 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.036 / 0.038	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.37 / 0.4	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.023 / 0.024	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0068 / 0.0074	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		110	110	201	3 / 3	160.3
Inorganic	Calcium (6020)	mg/kg		108	108	216	3 / 3	167.7
Inorganic	Chromium (6010)	mg/kg	0.028 / 0.028	ND	0.035	0.078	2 / 3	0.0565
Inorganic	Chromium (6020)	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6010)	mg/kg	0.031 / 0.033	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Copper (6010)	mg/kg		0.24	0.24	0.33	3 / 3	0.29
Inorganic	Copper (6020)	mg/kg		0.25	0.25	0.35	3 / 3	0.3033
Inorganic	Iron (6010)	mg/kg		1.8	1.8	3.9	3 / 3	2.833
Inorganic	Iron (6020)	mg/kg	10.8 / 11.6	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.084 / 0.086	ND	0.092	0.092	1 / 3	0.092
Inorganic	Lead (6020)	mg/kg	0.025 / 0.026	ND	0.027	0.043	2 / 3	0.035
Inorganic	Magnesium (6010)	mg/kg		285	285	304	3 / 3	291.7
Inorganic	Magnesium (6020)	mg/kg		295	295	312	3 / 3	303.3
Inorganic	Manganese (6010)	mg/kg	0.095 / 0.31	ND	ND	ND	0 / 3	0
Inorganic	Manganese (6020)	mg/kg	0.15 / 0.16	ND	0.25	0.32	2 / 3	0.285

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 4: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Wet Weight) at Emory River Mile 3.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.059	0.059	0.089	3 / 3	0.06967
Inorganic	Mercury (7471)	mg/kg		0.11	0.11	0.15	3 / 3	0.13
Inorganic	Molybdenum (6010)	mg/kg	0.16 / 0.17	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.032 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.025 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6020)	mg/kg	0.088 / 0.094	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		3860	3860	4160	3 / 3	3990
Inorganic	Potassium (6020)	mg/kg		4100	4100	4470	3 / 3	4253
Inorganic	Selenium (6010)	mg/kg		1.1	1.1	1.3	3 / 3	1.233
Inorganic	Selenium (6020)	mg/kg		0.77	0.77	0.92	3 / 3	0.8367
Inorganic	Silver (6010)	mg/kg	0.039 / 0.042	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0026 / 0.0028	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		484	484	591	3 / 3	548.3
Inorganic	Sodium (6020)	mg/kg		469	469	553	3 / 3	524.3
Inorganic	Strontium (6010)	mg/kg		0.061	0.061	0.15	3 / 3	0.1137
Inorganic	Strontium (6020)	mg/kg		0.066	0.066	0.16	3 / 3	0.1187
Inorganic	Thallium (6010)	mg/kg	0.13 / 0.14	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg	0.012 / 0.013	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6010)	mg/kg	0.029 / 0.032	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.041 / 0.044	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		6.2	6.2	10.1	3 / 3	7.733
Inorganic	Zinc (6020)	mg/kg		6.2	6.2	10.3	3 / 3	7.767
Physical Properties	% Lipids	%		0.12	0.12	1.2	3 / 3	0.6767
Physical Properties	% Moisture	%		79	79	80.5	3 / 6	79.93

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 5: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Wet Weight) at Clinch River Mile 5.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.92 / 0.92	ND	ND	ND	0 / 1	0
Inorganic	Aluminum (6020)	mg/kg	3.9 / 3.9	ND	ND	ND	0 / 1	0
Inorganic	Antimony (6010)	mg/kg	0.23 / 0.23	ND	ND	ND	0 / 1	0
Inorganic	Antimony (6020)	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 1	0
Inorganic	Arsenic (6010)	mg/kg		0.29	0.29	0.29	1 / 1	0.29
Inorganic	Arsenic (6020)	mg/kg		0.31	0.31	0.31	1 / 1	0.31
Inorganic	Barium (6010)	mg/kg		0.061	0.061	0.061	1 / 1	0.061
Inorganic	Barium (6020)	mg/kg	0.045 / 0.045	ND	ND	ND	0 / 1	0
Inorganic	Beryllium (6010)	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 1	0
Inorganic	Beryllium (6020)	mg/kg	0.029 / 0.029	ND	ND	ND	0 / 1	0
Inorganic	Boron (6010)	mg/kg	0.039 / 0.039	ND	ND	ND	0 / 1	0
Inorganic	Boron (6020)	mg/kg	0.4 / 0.4	ND	ND	ND	0 / 1	0
Inorganic	Cadmium (6010)	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Inorganic	Cadmium (6020)	mg/kg	0.0074 / 0.0074	ND	ND	ND	0 / 1	0
Inorganic	Calcium (6010)	mg/kg		195	195	195	1 / 1	195
Inorganic	Calcium (6020)	mg/kg		220	220	220	1 / 1	220
Inorganic	Chromium (6010)	mg/kg		0.05	0.05	0.05	1 / 1	0.05
Inorganic	Chromium (6020)	mg/kg	0.12 / 0.12	ND	ND	ND	0 / 1	0
Inorganic	Cobalt (6010)	mg/kg	0.033 / 0.033	ND	ND	ND	0 / 1	0
Inorganic	Cobalt (6020)	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 1	0
Inorganic	Copper (6010)	mg/kg		0.15	0.15	0.15	1 / 1	0.15
Inorganic	Copper (6020)	mg/kg		0.18	0.18	0.18	1 / 1	0.18
Inorganic	Iron (6010)	mg/kg		3.4	3.4	3.4	1 / 1	3.4
Inorganic	Iron (6020)	mg/kg	11.8 / 11.8	ND	ND	ND	0 / 1	0
Inorganic	Lead (6010)	mg/kg	0.091 / 0.091	ND	ND	ND	0 / 1	0
Inorganic	Lead (6020)	mg/kg	0.027 / 0.027	ND	ND	ND	0 / 1	0
Inorganic	Magnesium (6010)	mg/kg		306	306	306	1 / 1	306
Inorganic	Magnesium (6020)	mg/kg		316	316	316	1 / 1	316
Inorganic	Manganese (6010)	mg/kg	0.19 / 0.19	ND	ND	ND	0 / 1	0
Inorganic	Manganese (6020)	mg/kg		0.21	0.21	0.21	1 / 1	0.21

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 5: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Wet Weight) at Clinch River Mile 5.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.09	0.09	0.09	1 / 1	0.09
Inorganic	Mercury (7471)	mg/kg		0.15	0.15	0.15	1 / 1	0.15
Inorganic	Molybdenum (6010)	mg/kg	0.17 / 0.17	ND	ND	ND	0 / 1	0
Inorganic	Molybdenum (6020)	mg/kg	0.034 / 0.034	ND	ND	ND	0 / 1	0
Inorganic	Nickel (6010)	mg/kg	0.027 / 0.027	ND	ND	ND	0 / 1	0
Inorganic	Nickel (6020)	mg/kg	0.095 / 0.095	ND	ND	ND	0 / 1	0
Inorganic	Potassium (6010)	mg/kg		3400	3400	3400	1 / 1	3400
Inorganic	Potassium (6020)	mg/kg		3720	3720	3720	1 / 1	3720
Inorganic	Selenium (6010)	mg/kg		1.2	1.2	1.2	1 / 1	1.2
Inorganic	Selenium (6020)	mg/kg		0.91	0.91	0.91	1 / 1	0.91
Inorganic	Silver (6010)	mg/kg	0.042 / 0.042	ND	ND	ND	0 / 1	0
Inorganic	Silver (6020)	mg/kg	0.0028 / 0.0028	ND	ND	ND	0 / 1	0
Inorganic	Sodium (6010)	mg/kg		697	697	697	1 / 1	697
Inorganic	Sodium (6020)	mg/kg		691	691	691	1 / 1	691
Inorganic	Strontium (6010)	mg/kg		0.11	0.11	0.11	1 / 1	0.11
Inorganic	Strontium (6020)	mg/kg		0.12	0.12	0.12	1 / 1	0.12
Inorganic	Thallium (6010)	mg/kg	0.14 / 0.14	ND	ND	ND	0 / 1	0
Inorganic	Thallium (6020)	mg/kg	0.013 / 0.013	ND	ND	ND	0 / 1	0
Inorganic	Vanadium (6010)	mg/kg	0.032 / 0.032	ND	ND	ND	0 / 1	0
Inorganic	Vanadium (6020)	mg/kg	0.045 / 0.045	ND	ND	ND	0 / 1	0
Inorganic	Zinc (6010)	mg/kg		8.2	8.2	8.2	1 / 1	8.2
Inorganic	Zinc (6020)	mg/kg		8.3	8.3	8.3	1 / 1	8.3
Physical Properties	% Lipids	%		0.35	0.35	0.35	1 / 1	0.35
Physical Properties	% Moisture	%		75.2	75.2	75.2	1 / 2	75.2

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 6: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Emory River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg		2.4	2.4	8.5	3 / 3	4.533
Inorganic	Aluminum (6020)	mg/kg	3.5 / 3.8	ND	7.7	7.7	1 / 3	7.7
Inorganic	Antimony (6010)	mg/kg	0.21 / 0.23	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.84	0.84	1	3 / 3	0.9433
Inorganic	Arsenic (6020)	mg/kg		0.73	0.73	0.95	3 / 3	0.8767
Inorganic	Barium (6010)	mg/kg		0.054	0.054	0.19	3 / 3	0.114
Inorganic	Barium (6020)	mg/kg	0.041 / 0.046	ND	0.079	0.15	2 / 3	0.1145
Inorganic	Beryllium (6010)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.035 / 0.04	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.37 / 0.41	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.022 / 0.025	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0067 / 0.0076	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		650	650	3240	3 / 3	1923
Inorganic	Calcium (6020)	mg/kg		634	634	3360	3 / 3	1958
Inorganic	Chromium (6010)	mg/kg		0.29	0.29	0.32	3 / 3	0.3033
Inorganic	Chromium (6020)	mg/kg	0.11 / 0.12	ND	0.12	0.13	2 / 3	0.125
Inorganic	Cobalt (6010)	mg/kg	0.03 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg		0.033	0.033	0.047	3 / 3	0.04067
Inorganic	Copper (6010)	mg/kg		1.7	1.7	1.9	3 / 3	1.8
Inorganic	Copper (6020)	mg/kg		1.7	1.7	1.9	3 / 3	1.8
Inorganic	Iron (6010)	mg/kg		9.7	9.7	13.8	3 / 3	11.17
Inorganic	Iron (6020)	mg/kg	10.6 / 12.1	ND	13.3	13.3	1 / 3	13.3
Inorganic	Lead (6010)	mg/kg	0.082 / 0.093	ND	0.13	0.13	1 / 3	0.13
Inorganic	Lead (6020)	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 3	0
Inorganic	Magnesium (6010)	mg/kg		1290	1290	1370	3 / 3	1337
Inorganic	Magnesium (6020)	mg/kg		1280	1280	1350	3 / 3	1323
Inorganic	Manganese (6010)	mg/kg		0.54	0.54	0.73	3 / 3	0.6533
Inorganic	Manganese (6020)	mg/kg		0.54	0.54	0.74	3 / 3	0.6567

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 6: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Emory River Mile 3.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.46	0.46	0.72	3 / 3	0.6
Inorganic	Mercury (7471)	mg/kg		0.67	0.67	0.98	3 / 3	0.8267
Inorganic	Molybdenum (6010)	mg/kg	0.15 / 0.17	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.031 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.024 / 0.027	ND	0.027	0.027	1 / 3	0.027
Inorganic	Nickel (6020)	mg/kg	0.086 / 0.098	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		17500	17500	18200	3 / 3	17767
Inorganic	Potassium (6020)	mg/kg		19400	19400	20000	3 / 3	19667
Inorganic	Selenium (6010)	mg/kg		3.2	3.2	3.8	3 / 3	3.467
Inorganic	Selenium (6020)	mg/kg		2.8	2.8	3.3	3 / 3	3
Inorganic	Silver (6010)	mg/kg	0.038 / 0.043	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		1940	1940	1980	3 / 3	1963
Inorganic	Sodium (6020)	mg/kg		1820	1820	1900	3 / 3	1867
Inorganic	Strontium (6010)	mg/kg		0.35	0.35	2.8	3 / 3	1.483
Inorganic	Strontium (6020)	mg/kg		0.36	0.36	2.9	3 / 3	1.553
Inorganic	Thallium (6010)	mg/kg	0.13 / 0.14	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg		0.033	0.033	0.05	3 / 3	0.04067
Inorganic	Vanadium (6010)	mg/kg	0.029 / 0.033	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.04 / 0.046	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		22	22	32.8	3 / 3	26.23
Inorganic	Zinc (6020)	mg/kg		22.5	22.5	34.8	3 / 3	27.27
Physical Properties	% Moisture	%		6.9	6.9	7.7	3 / 6	7.167

Notes:

Grab sample results are freeze dried.

For definitions, see the Acronyms section.

Table K- 7: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Emory River Mile 2.0

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.89 / 0.97	ND	2.4	2.5	2 / 3	2.45
Inorganic	Aluminum (6020)	mg/kg	3.8 / 4.1	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6010)	mg/kg	0.22 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.81	0.81	1.4	3 / 3	1.033
Inorganic	Arsenic (6020)	mg/kg		0.77	0.77	1.4	3 / 3	0.9967
Inorganic	Barium (6010)	mg/kg	0.041 / 0.044	ND	0.064	0.069	2 / 3	0.0665
Inorganic	Barium (6020)	mg/kg	0.043 / 0.047	ND	0.061	0.061	1 / 3	0.061
Inorganic	Beryllium (6010)	mg/kg	0.014 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.038 / 0.041	ND	0.077	0.077	1 / 3	0.077
Inorganic	Boron (6020)	mg/kg	0.39 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.024 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0072 / 0.0079	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		911	911	1390	3 / 3	1098
Inorganic	Calcium (6020)	mg/kg		914	914	1400	3 / 3	1102
Inorganic	Chromium (6010)	mg/kg		0.22	0.22	0.26	3 / 3	0.24
Inorganic	Chromium (6020)	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6010)	mg/kg	0.032 / 0.035	ND	0.046	0.046	1 / 3	0.046
Inorganic	Cobalt (6020)	mg/kg		0.038	0.038	0.092	3 / 3	0.05933
Inorganic	Copper (6010)	mg/kg		1.3	1.3	2.3	3 / 3	1.667
Inorganic	Copper (6020)	mg/kg		1.2	1.2	2.3	3 / 3	1.633
Inorganic	Iron (6010)	mg/kg		7.1	7.1	8	3 / 3	7.633
Inorganic	Iron (6020)	mg/kg	11.4 / 12.4	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.088 / 0.096	ND	ND	ND	0 / 3	0
Inorganic	Lead (6020)	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Magnesium (6010)	mg/kg		1210	1210	1390	3 / 3	1310
Inorganic	Magnesium (6020)	mg/kg		1240	1240	1360	3 / 3	1303
Inorganic	Manganese (6010)	mg/kg		0.57	0.57	0.95	3 / 3	0.7633
Inorganic	Manganese (6020)	mg/kg		0.57	0.57	0.96	3 / 3	0.7633

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 7: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Emory River Mile 2.0 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.21	0.21	0.57	3 / 3	0.3867
Inorganic	Mercury (7471)	mg/kg		0.3	0.3	0.85	3 / 3	0.5467
Inorganic	Molybdenum (6010)	mg/kg	0.16 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.026 / 0.028	ND	0.034	0.034	1 / 3	0.034
Inorganic	Nickel (6020)	mg/kg	0.092 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		16500	16500	17600	3 / 3	17200
Inorganic	Potassium (6020)	mg/kg		18100	18100	19900	3 / 3	19167
Inorganic	Selenium (6010)	mg/kg		4.6	4.6	5.3	3 / 3	5
Inorganic	Selenium (6020)	mg/kg		4.2	4.2	5.1	3 / 3	4.767
Inorganic	Silver (6010)	mg/kg	0.041 / 0.045	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		1840	1840	2620	3 / 3	2350
Inorganic	Sodium (6020)	mg/kg		1790	1790	2590	3 / 3	2300
Inorganic	Strontium (6010)	mg/kg		0.61	0.61	0.96	3 / 3	0.7367
Inorganic	Strontium (6020)	mg/kg		0.62	0.62	1	3 / 3	0.7633
Inorganic	Thallium (6010)	mg/kg	0.14 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg		0.078	0.078	0.095	3 / 3	0.087
Inorganic	Vanadium (6010)	mg/kg	0.031 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.043 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		25.3	25.3	30.2	3 / 3	27.33
Inorganic	Zinc (6020)	mg/kg		25.7	25.7	31.2	3 / 3	28
Physical Properties	% Moisture	%		6.5	6.5	7.2	3 / 6	6.9

Notes:

Grab sample results are freeze dried.

For definitions, see the Acronyms section.

Table K- 8: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg	0.97 / 0.98	ND	1.6	4.3	2 / 3	2.95
Inorganic	Aluminum (6020)	mg/kg	4.1 / 4.1	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6010)	mg/kg	0.24 / 0.24	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.89	0.89	1.1	3 / 3	0.9967
Inorganic	Arsenic (6020)	mg/kg		0.73	0.73	0.88	3 / 3	0.8167
Inorganic	Barium (6010)	mg/kg	0.044 / 0.045	ND	0.061	0.082	2 / 3	0.0715
Inorganic	Barium (6020)	mg/kg	0.047 / 0.047	ND	0.06	0.06	1 / 3	0.06
Inorganic	Beryllium (6010)	mg/kg	0.016 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.03 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.041 / 0.041	ND	0.076	0.076	1 / 3	0.076
Inorganic	Boron (6020)	mg/kg	0.42 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.026 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0078 / 0.0079	ND	0.015	0.015	1 / 3	0.015
Inorganic	Calcium (6010)	mg/kg		479	479	3460	3 / 3	1760
Inorganic	Calcium (6020)	mg/kg		485	485	3550	3 / 3	1802
Inorganic	Chromium (6010)	mg/kg		0.25	0.25	0.32	3 / 3	0.2833
Inorganic	Chromium (6020)	mg/kg	0.13 / 0.13	ND	0.2	0.2	1 / 3	0.2
Inorganic	Cobalt (6010)	mg/kg	0.035 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg	0.014 / 0.015	ND	0.02	0.022	2 / 3	0.021
Inorganic	Copper (6010)	mg/kg		0.87	0.87	3.4	3 / 3	1.857
Inorganic	Copper (6020)	mg/kg		1	1	3.4	3 / 3	1.9
Inorganic	Iron (6010)	mg/kg		9.3	9.3	11.1	3 / 3	9.933
Inorganic	Iron (6020)	mg/kg	12.3 / 12.4	ND	ND	ND	0 / 3	0
Inorganic	Lead (6010)	mg/kg	0.095 / 0.096	ND	0.1	0.12	2 / 3	0.11
Inorganic	Lead (6020)	mg/kg	0.029 / 0.029	ND	0.041	0.041	1 / 3	0.041
Inorganic	Magnesium (6010)	mg/kg		1240	1240	1490	3 / 3	1367
Inorganic	Magnesium (6020)	mg/kg		1230	1230	1460	3 / 3	1343
Inorganic	Manganese (6010)	mg/kg		0.46	0.46	1	3 / 3	0.68
Inorganic	Manganese (6020)	mg/kg		0.45	0.45	1	3 / 3	0.6867

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 8: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Largemouth Bass Fillet (Freeze Dried) at Clinch River Mile 5.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.43	0.43	0.91	3 / 3	0.7133
Inorganic	Mercury (7471)	mg/kg		0.64	0.64	1.3	3 / 3	0.98
Inorganic	Molybdenum (6010)	mg/kg	0.18 / 0.18	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.036 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.028 / 0.028	ND	0.036	0.036	1 / 3	0.036
Inorganic	Nickel (6020)	mg/kg	0.1 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium (6010)	mg/kg		17300	17300	18600	3 / 3	17900
Inorganic	Potassium (6020)	mg/kg		19300	19300	20300	3 / 3	19767
Inorganic	Selenium (6010)	mg/kg		3.5	3.5	4.2	3 / 3	3.833
Inorganic	Selenium (6020)	mg/kg		2.8	2.8	3.7	3 / 3	3.267
Inorganic	Silver (6010)	mg/kg	0.044 / 0.045	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.003 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		1710	1710	2700	3 / 3	2217
Inorganic	Sodium (6020)	mg/kg		1730	1730	2690	3 / 3	2203
Inorganic	Strontium (6010)	mg/kg		0.26	0.26	2.4	3 / 3	1.197
Inorganic	Strontium (6020)	mg/kg		0.27	0.27	2.5	3 / 3	1.25
Inorganic	Thallium (6010)	mg/kg	0.15 / 0.15	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg		0.035	0.035	0.094	3 / 3	0.05733
Inorganic	Vanadium (6010)	mg/kg	0.034 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.047 / 0.047	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		18.7	18.7	43.7	3 / 3	31.43
Inorganic	Zinc (6020)	mg/kg		18.4	18.4	44.2	3 / 3	31.83
Physical Properties	% Moisture	%		6.9	6.9	7.9	3 / 6	7.3

Notes:

Grab sample results are freeze dried.

For definitions, see the Acronyms section.

Table K- 9: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Freeze Dried) at Emory River Mile 3.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg		6.3	6.3	11.3	3 / 3	8.767
Inorganic	Aluminum (6020)	mg/kg		4.3	4.3	7.5	3 / 3	6.267
Inorganic	Antimony (6010)	mg/kg	0.23 / 0.35	ND	ND	ND	0 / 3	0
Inorganic	Antimony (6020)	mg/kg	0.014 / 0.021	ND	ND	ND	0 / 3	0
Inorganic	Arsenic (6010)	mg/kg		0.5	0.5	0.97	3 / 3	0.7433
Inorganic	Arsenic (6020)	mg/kg		0.3	0.3	0.72	3 / 3	0.5267
Inorganic	Barium (6010)	mg/kg		0.44	0.44	0.97	3 / 3	0.69
Inorganic	Barium (6020)	mg/kg		0.4	0.4	0.91	3 / 3	0.6433
Inorganic	Beryllium (6010)	mg/kg	0.015 / 0.023	ND	ND	ND	0 / 3	0
Inorganic	Beryllium (6020)	mg/kg	0.028 / 0.043	ND	ND	ND	0 / 3	0
Inorganic	Boron (6010)	mg/kg	0.038 / 0.059	ND	ND	ND	0 / 3	0
Inorganic	Boron (6020)	mg/kg	0.4 / 0.61	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6010)	mg/kg	0.024 / 0.037	ND	ND	ND	0 / 3	0
Inorganic	Cadmium (6020)	mg/kg	0.0073 / 0.011	ND	ND	ND	0 / 3	0
Inorganic	Calcium (6010)	mg/kg		2720	2720	6110	3 / 3	3950
Inorganic	Calcium (6020)	mg/kg		2870	2870	6180	3 / 3	4030
Inorganic	Chromium (6010)	mg/kg		0.28	0.28	0.34	3 / 3	0.3067
Inorganic	Chromium (6020)	mg/kg	0.12 / 0.19	ND	0.16	0.16	1 / 3	0.16
Inorganic	Cobalt (6010)	mg/kg	0.033 / 0.05	ND	ND	ND	0 / 3	0
Inorganic	Cobalt (6020)	mg/kg		0.034	0.034	0.036	3 / 3	0.03467
Inorganic	Copper (6010)	mg/kg		1.9	1.9	4.4	3 / 3	2.733
Inorganic	Copper (6020)	mg/kg		1.8	1.8	4.2	3 / 3	2.633
Inorganic	Iron (6010)	mg/kg		12.9	12.9	22.1	3 / 3	17.03
Inorganic	Iron (6020)	mg/kg	11.6 / 17.8	ND	13.2	21.5	2 / 3	17.35
Inorganic	Lead (6010)	mg/kg	0.09 / 0.09	ND	0.14	0.16	2 / 3	0.15
Inorganic	Lead (6020)	mg/kg		0.087	0.087	0.11	3 / 3	0.099
Inorganic	Magnesium (6010)	mg/kg		1310	1310	1440	3 / 3	1363
Inorganic	Magnesium (6020)	mg/kg		1300	1300	1430	3 / 3	1353
Inorganic	Manganese (6010)	mg/kg		1.5	1.5	2.3	3 / 3	1.867
Inorganic	Manganese (6020)	mg/kg		1.5	1.5	2.4	3 / 3	1.9

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K- 9: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Freeze Dried) at Emory River Mile 3.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.25	0.25	0.37	3 / 3	0.2933
Inorganic	Mercury (7471)	mg/kg	0.13 / 0.99	ND	0.46	0.47	2 / 3	0.465
Inorganic	Molybdenum (6010)	mg/kg	0.17 / 0.26	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum (6020)	mg/kg	0.034 / 0.052	ND	ND	ND	0 / 3	0
Inorganic	Nickel (6010)	mg/kg	0.026 / 0.04	ND	0.05	0.21	2 / 3	0.13
Inorganic	Nickel (6020)	mg/kg	0.094 / 0.14	ND	0.098	0.25	2 / 3	0.174
Inorganic	Potassium (6010)	mg/kg		17600	17600	18300	3 / 3	18067
Inorganic	Potassium (6020)	mg/kg		19900	19900	20400	3 / 3	20200
Inorganic	Selenium (6010)	mg/kg		4.1	4.1	4.9	3 / 3	4.467
Inorganic	Selenium (6020)	mg/kg		3.7	3.7	4.3	3 / 3	3.967
Inorganic	Silver (6010)	mg/kg	0.042 / 0.064	ND	ND	ND	0 / 3	0
Inorganic	Silver (6020)	mg/kg	0.0028 / 0.0043	ND	ND	ND	0 / 3	0
Inorganic	Sodium (6010)	mg/kg		2780	2780	2950	3 / 3	2857
Inorganic	Sodium (6020)	mg/kg		2610	2610	2820	3 / 3	2710
Inorganic	Strontium (6010)	mg/kg		2	2	5	3 / 3	3.167
Inorganic	Strontium (6020)	mg/kg		2.1	2.1	5.1	3 / 3	3.233
Inorganic	Thallium (6010)	mg/kg	0.14 / 0.21	ND	ND	ND	0 / 3	0
Inorganic	Thallium (6020)	mg/kg	0.013 / 0.02	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6010)	mg/kg	0.032 / 0.048	ND	ND	ND	0 / 3	0
Inorganic	Vanadium (6020)	mg/kg	0.044 / 0.067	ND	ND	ND	0 / 3	0
Inorganic	Zinc (6010)	mg/kg		34.8	34.8	63.2	3 / 3	45.77
Inorganic	Zinc (6020)	mg/kg		35.8	35.8	64.3	3 / 3	46.77
Physical Properties	% Moisture	%		6.8	6.8	8.9	3 / 6	7.8

Notes:

Grab sample results are freeze dried.

For definitions, see the Acronyms section.

Table K-10: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Freeze Dried) at Clinch River Mile 5.5

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum (6010)	mg/kg		2.2	2.2	2.2	1 / 1	2.2
Inorganic	Aluminum (6020)	mg/kg	4 / 4	ND	ND	ND	0 / 1	0
Inorganic	Antimony (6010)	mg/kg	0.23 / 0.23	ND	ND	ND	0 / 1	0
Inorganic	Antimony (6020)	mg/kg	0.014 / 0.014	ND	ND	ND	0 / 1	0
Inorganic	Arsenic (6010)	mg/kg		1.6	1.6	1.6	1 / 1	1.6
Inorganic	Arsenic (6020)	mg/kg		1.5	1.5	1.5	1 / 1	1.5
Inorganic	Barium (6010)	mg/kg		0.046	0.046	0.046	1 / 1	0.046
Inorganic	Barium (6020)	mg/kg	0.045 / 0.045	ND	ND	ND	0 / 1	0
Inorganic	Beryllium (6010)	mg/kg	0.015 / 0.015	ND	ND	ND	0 / 1	0
Inorganic	Beryllium (6020)	mg/kg	0.029 / 0.029	ND	ND	ND	0 / 1	0
Inorganic	Boron (6010)	mg/kg	0.039 / 0.039	ND	ND	ND	0 / 1	0
Inorganic	Boron (6020)	mg/kg	0.41 / 0.41	ND	ND	ND	0 / 1	0
Inorganic	Cadmium (6010)	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Inorganic	Cadmium (6020)	mg/kg	0.0075 / 0.0075	ND	ND	ND	0 / 1	0
Inorganic	Calcium (6010)	mg/kg		642	642	642	1 / 1	642
Inorganic	Calcium (6020)	mg/kg		662	662	662	1 / 1	662
Inorganic	Chromium (6010)	mg/kg		0.23	0.23	0.23	1 / 1	0.23
Inorganic	Chromium (6020)	mg/kg	0.13 / 0.13	ND	ND	ND	0 / 1	0
Inorganic	Cobalt (6010)	mg/kg	0.034 / 0.034	ND	ND	ND	0 / 1	0
Inorganic	Cobalt (6020)	mg/kg		0.019	0.019	0.019	1 / 1	0.019
Inorganic	Copper (6010)	mg/kg		2.5	2.5	2.5	1 / 1	2.5
Inorganic	Copper (6020)	mg/kg		2.5	2.5	2.5	1 / 1	2.5
Inorganic	Iron (6010)	mg/kg		13.5	13.5	13.5	1 / 1	13.5
Inorganic	Iron (6020)	mg/kg		13.1	13.1	13.1	1 / 1	13.1
Inorganic	Lead (6010)	mg/kg	0.092 / 0.092	ND	ND	ND	0 / 1	0
Inorganic	Lead (6020)	mg/kg	0.028 / 0.028	ND	ND	ND	0 / 1	0
Inorganic	Magnesium (6010)	mg/kg		1370	1370	1370	1 / 1	1370
Inorganic	Magnesium (6020)	mg/kg		1360	1360	1360	1 / 1	1360
Inorganic	Manganese (6010)	mg/kg	0.39 / 0.39	ND	ND	ND	0 / 1	0
Inorganic	Manganese (6020)	mg/kg		0.37	0.37	0.37	1 / 1	0.37

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table K-10: Tennessee Aquarium / Appalachian State University (Splits), Fall 2010 - Red Ear Sunfish Fillet (Freeze Dried) at Clinch River Mile 5.5 (Continued)

Group	Analyte	Units (Freeze Dried Basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Mercury (6020)	mg/kg		0.35	0.35	0.35	1 / 1	0.35
Inorganic	Mercury (7471)	mg/kg		0.58	0.58	0.58	1 / 1	0.58
Inorganic	Molybdenum (6010)	mg/kg	0.17 / 0.17	ND	ND	ND	0 / 1	0
Inorganic	Molybdenum (6020)	mg/kg		0.092	0.092	0.092	1 / 1	0.092
Inorganic	Nickel (6010)	mg/kg	0.027 / 0.027	ND	ND	ND	0 / 1	0
Inorganic	Nickel (6020)	mg/kg	0.097 / 0.097	ND	ND	ND	0 / 1	0
Inorganic	Potassium (6010)	mg/kg		16300	16300	16300	1 / 1	16300
Inorganic	Potassium (6020)	mg/kg		17700	17700	17700	1 / 1	17700
Inorganic	Selenium (6010)	mg/kg		4.4	4.4	4.4	1 / 1	4.4
Inorganic	Selenium (6020)	mg/kg		4.1	4.1	4.1	1 / 1	4.1
Inorganic	Silver (6010)	mg/kg	0.043 / 0.043	ND	ND	ND	0 / 1	0
Inorganic	Silver (6020)	mg/kg	0.0029 / 0.0029	ND	ND	ND	0 / 1	0
Inorganic	Sodium (6010)	mg/kg		3240	3240	3240	1 / 1	3240
Inorganic	Sodium (6020)	mg/kg		3140	3140	3140	1 / 1	3140
Inorganic	Strontium (6010)	mg/kg		0.28	0.28	0.28	1 / 1	0.28
Inorganic	Strontium (6020)	mg/kg		0.28	0.28	0.28	1 / 1	0.28
Inorganic	Thallium (6010)	mg/kg	0.14 / 0.14	ND	ND	ND	0 / 1	0
Inorganic	Thallium (6020)	mg/kg		0.051	0.051	0.051	1 / 1	0.051
Inorganic	Vanadium (6010)	mg/kg		0.034	0.034	0.034	1 / 1	0.034
Inorganic	Vanadium (6020)	mg/kg		0.054	0.054	0.054	1 / 1	0.054
Inorganic	Zinc (6010)	mg/kg		42.1	42.1	42.1	1 / 1	42.1
Inorganic	Zinc (6020)	mg/kg		43.6	43.6	43.6	1 / 1	43.6
Physical Properties	% Moisture	%		8.1	8.1	8.1	1 / 2	8.1

Notes:

Grab sample results are freeze dried.

For definitions, see the Acronyms section.

APPENDIX L
TVA SAP Sampling, Fall 2010

Table L- 1: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.705 / 4.081	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01345 / 0.01464	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02596 / 0.02856	ND	0.00695	0.0276	3 / 6	0.01419
Inorganic	Barium	mg/kg	0.04248 / 0.04758	ND	0.01674	0.02392	3 / 6	0.02142
Inorganic	Beryllium	mg/kg	0.02832 / 0.02944	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3776 / 0.4232	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00708 / 0.00773	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		100.4	100.4	1039	6 / 6	463.3
Inorganic	Chromium	mg/kg	0.118 / 0.1299	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01298 / 0.01427	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg	0.1345 / 0.1464	ND	0.03822	0.059	5 / 6	0.0494
Inorganic	Iron	mg/kg	11.16 / 12.26	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02596 / 0.02856	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		264.6	264.6	306	6 / 6	288.6
Inorganic	Manganese	mg/kg		0.04536	0.04536	0.7316	6 / 6	0.2352
Inorganic	Mercury	mg/kg		0.00403	0.00403	0.00928	6 / 6	0.00687
Inorganic	Molybdenum	mg/kg	0.03304 / 0.0366	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08968 / 0.09882	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3146	3146	4136	6 / 6	3727
Inorganic	Selenium	mg/kg		0.06954	0.06954	0.1322	6 / 6	0.1036
Inorganic	Silver	mg/kg	0.0026 / 0.00294	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		351.3	351.3	524.4	6 / 6	414.5
Inorganic	Strontium	mg/kg		0.0138	0.0138	0.1674	6 / 6	0.09585
Inorganic	Thallium	mg/kg	0.01274 / 0.01409	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04248 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		1.436	1.436	12.15	6 / 6	6.298
Physical Properties	% Lipids	%		0.38	0.38	1.6	6 / 6	0.7833
Physical Properties	% Moisture	%		76.4	76.4	81.8	6 / 6	80.37

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 2: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.029	ND	0.04	0.04	1 / 6	0.04
Inorganic	Barium	mg/kg	0.042 / 0.048	ND	0.065	0.48	4 / 6	0.2438
Inorganic	Beryllium	mg/kg	0.027 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		156	156	3400	6 / 6	1458
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.13	0.67	2 / 6	0.4
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2	0.2	0.35	6 / 6	0.2633
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		285	285	349	6 / 6	313.5
Inorganic	Manganese	mg/kg		0.21	0.21	7.1	6 / 6	2.105
Inorganic	Mercury	mg/kg		0.048	0.048	0.12	6 / 6	0.08133
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	0.35	0.35	1 / 6	0.35
Inorganic	Potassium	mg/kg		2610	2610	3460	6 / 6	3125
Inorganic	Selenium	mg/kg		0.38	0.38	0.49	6 / 6	0.4317
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		335	335	823	6 / 6	531.8
Inorganic	Strontium	mg/kg		0.097	0.097	2.8	6 / 6	1.186
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		11.9	11.9	19.2	6 / 6	15.33
Physical Properties	% Lipids	%		0.43	0.43	2.4	6 / 6	1.437
Physical Properties	% Moisture	%		80.7	80.7	81.5	6 / 6	80.87
Speciation	Arsenate	mg/kg	0.003 / 0.007	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.131 / 0.173	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0006 / 0.001	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.007	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.131 / 0.173	ND	ND	ND	0 / 6	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 3: TVA SAP Sampling, Fall 2010 - Bluegill Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.013 / 0.024	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.045	0.045	0.071	5 / 5	0.0622
Inorganic	Barium	mg/kg		1.1	1.1	3.2	5 / 5	1.94
Inorganic	Beryllium	mg/kg	0.055 / 0.567	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0076	ND	0.0088	0.0088	1 / 5	0.0088
Inorganic	Calcium	mg/kg		14600	14600	41100	5 / 5	25140
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	0.12	0.12	1 / 5	0.12
Inorganic	Cobalt	mg/kg		0.019	0.019	0.034	5 / 5	0.025
Inorganic	Copper	mg/kg		0.3	0.3	0.36	5 / 5	0.328
Inorganic	Iron	mg/kg	11 / 12.1	ND	12.5	15.8	4 / 5	14.2
Inorganic	Lead	mg/kg	0.025 / 0.026	ND	0.043	0.064	4 / 5	0.05325
Inorganic	Magnesium	mg/kg		458	458	852	5 / 5	597
Inorganic	Manganese	mg/kg		14.3	14.3	39.5	5 / 5	21.1
Inorganic	Mercury	mg/kg		0.017	0.017	0.053	5 / 5	0.0308
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	0.037	0.068	3 / 5	0.05667
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2450	2450	2630	5 / 5	2546
Inorganic	Selenium	mg/kg		0.48	0.48	0.71	5 / 5	0.604
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		1160	1160	1400	5 / 5	1292
Inorganic	Strontium	mg/kg		13.6	13.6	38	5 / 5	23.48
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.042 / 0.046	ND	0.043	0.067	3 / 5	0.059
Inorganic	Zinc	mg/kg		30.6	30.6	43.7	5 / 5	36.48
Physical Properties	% Lipids	%		0.95	0.95	3.6	5 / 5	2.43
Physical Properties	% Moisture	%		72	72	75.1	5 / 5	73.94

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 4: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.025 / 0.027	ND	0.033	0.039	3 / 5	0.03667
Inorganic	Barium	mg/kg		0.082	0.082	0.3	5 / 5	0.1964
Inorganic	Beryllium	mg/kg	0.028 / 0.061	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0077	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		837	837	3620	5 / 5	2335
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Copper	mg/kg		0.18	0.18	0.34	5 / 5	0.258
Inorganic	Iron	mg/kg	10.9 / 12.2	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		275	275	334	5 / 5	307.8
Inorganic	Manganese	mg/kg		0.53	0.53	4.2	5 / 5	2.066
Inorganic	Mercury	mg/kg		0.029	0.029	0.066	5 / 5	0.0424
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.089 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3320	3320	3570	5 / 5	3474
Inorganic	Selenium	mg/kg		0.43	0.43	0.64	5 / 5	0.55
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		356	356	495	5 / 5	409
Inorganic	Strontium	mg/kg		0.74	0.74	3.3	5 / 5	2.108
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		9	9	15.7	5 / 5	12
Physical Properties	% Lipids	%		0.62	0.62	1.8	5 / 5	0.912
Physical Properties	% Moisture	%		78.2	78.2	81	5 / 5	80.12

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 5: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.05	0.05	0.14	6 / 6	0.091
Inorganic	Barium	mg/kg		0.043	0.043	0.1	6 / 6	0.072
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		201	201	894	6 / 6	559.8
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	0.16	0.16	1 / 6	0.16
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.22	0.22	0.41	6 / 6	0.275
Inorganic	Iron	mg/kg	11 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		289	289	362	6 / 6	333.3
Inorganic	Manganese	mg/kg		0.3	0.3	0.85	6 / 6	0.5883
Inorganic	Mercury	mg/kg		0.03	0.03	0.066	6 / 6	0.05167
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3370	3370	4120	6 / 6	3713
Inorganic	Selenium	mg/kg		0.56	0.56	0.82	6 / 6	0.6883
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		359	359	455	6 / 6	407.2
Inorganic	Strontium	mg/kg		0.15	0.15	0.88	6 / 6	0.55
Inorganic	Thallium	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		11.4	11.4	15.8	6 / 6	13.55
Physical Properties	% Lipids	%		0.49	0.49	1.5	6 / 6	0.8683
Physical Properties	% Moisture	%		74.5	74.5	81.3	6 / 6	79.85
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.121 / 0.176	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0006 / 0.001	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.121 / 0.176	ND	ND	ND	0 / 6	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 6: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.052	0.052	0.24	6 / 6	0.118
Inorganic	Barium	mg/kg		0.051	0.051	0.24	6 / 6	0.131
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		276	276	1750	6 / 6	1009
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	0.18	0.27	2 / 6	0.225
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.31	0.31	0.94	6 / 6	0.505
Inorganic	Iron	mg/kg	11 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	0.084	0.084	1 / 6	0.084
Inorganic	Magnesium	mg/kg		324	324	382	6 / 6	350
Inorganic	Manganese	mg/kg		0.24	0.24	1.1	6 / 6	0.545
Inorganic	Mercury	mg/kg		0.031	0.031	0.072	6 / 6	0.05083
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	0.16	0.16	1 / 6	0.16
Inorganic	Potassium	mg/kg		3360	3360	4000	6 / 6	3758
Inorganic	Selenium	mg/kg		0.72	0.72	1.1	6 / 6	0.88
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	0.011	0.025	5 / 6	0.017
Inorganic	Sodium	mg/kg		328	328	451	6 / 6	366.8
Inorganic	Strontium	mg/kg		0.24	0.24	2	6 / 6	0.9883
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	0.059	0.059	1 / 6	0.059
Inorganic	Zinc	mg/kg		12.7	12.7	15.3	6 / 6	14.15
Physical Properties	% Lipids	%		0.72	0.72	1.7	5 / 5	1.14
Physical Properties	% Moisture	%		76.6	76.6	80.8	6 / 6	79.12
Speciation	Arsenate	mg/kg	0.002 / 0.004	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.149 / 0.191	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0009 / 0.002	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.002 / 0.004	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.149 / 0.191	ND	ND	ND	0 / 6	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 7: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.722 / 4.04	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01354 / 0.01454	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.03948	0.03948	0.1066	6 / 6	0.07877
Inorganic	Barium	mg/kg		0.0505	0.0505	0.1353	6 / 6	0.08316
Inorganic	Beryllium	mg/kg	0.0282 / 0.0303	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3895 / 0.4242	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00714 / 0.00776	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		260.6	260.6	1060	6 / 6	647.3
Inorganic	Chromium	mg/kg	0.1184 / 0.1274	ND	0.2424	0.2424	1 / 6	0.2424
Inorganic	Cobalt	mg/kg	0.01316 / 0.01433	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.0846	0.0846	0.2626	6 / 6	0.2043
Inorganic	Iron	mg/kg	11.22 / 12.18	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02632 / 0.02828	ND	0.04378	0.04378	1 / 6	0.04378
Inorganic	Magnesium	mg/kg		280.6	280.6	303.7	6 / 6	288.1
Inorganic	Manganese	mg/kg		0.303	0.303	0.9568	6 / 6	0.555
Inorganic	Mercury	mg/kg		0.04305	0.04305	0.06032	6 / 6	0.0503
Inorganic	Molybdenum	mg/kg	0.03196 / 0.03636	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09024 / 0.0995	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3260	3260	3711	6 / 6	3480
Inorganic	Selenium	mg/kg		0.492	0.492	0.7585	6 / 6	0.6291
Inorganic	Silver	mg/kg	0.00263 / 0.00299	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		299.5	299.5	426.8	6 / 6	378.8
Inorganic	Strontium	mg/kg		0.2222	0.2222	0.9635	6 / 6	0.5824
Inorganic	Thallium	mg/kg	0.01278 / 0.01394	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04305 / 0.04646	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		11.07	11.07	18.61	6 / 6	14.18
Physical Properties	% Lipids	%		1.4	1.4	3.2	6 / 6	2.317
Physical Properties	% Moisture	%		79.2	79.2	81.2	6 / 6	79.88
Speciation	Arsenate	mg/kg	0.003 / 0.006	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.139 / 0.186	ND	0.255	0.255	1 / 6	0.255
Speciation	Arsenite	mg/kg	0.0005 / 0.002	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.006	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.139 / 0.186	ND	0.255	0.255	1 / 6	0.255

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 8: TVA SAP Sampling, Fall 2010 - Bluegill Carcass at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		6.8	6.8	584	4 / 4	266
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	0.014	0.021	2 / 4	0.0175
Inorganic	Arsenic	mg/kg		0.23	0.23	0.97	4 / 4	0.535
Inorganic	Barium	mg/kg		1.9	1.9	8.1	4 / 4	5.45
Inorganic	Beryllium	mg/kg	0.028 / 0.0607	ND	0.053	0.053	1 / 4	0.053
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	0.58	0.58	1 / 4	0.58
Inorganic	Cadmium	mg/kg	0.0073 / 0.0156	ND	0.016	0.033	3 / 4	0.02333
Inorganic	Calcium	mg/kg		23400	23400	40100	4 / 4	32300
Inorganic	Chromium	mg/kg		0.28	0.28	1	4 / 4	0.7925
Inorganic	Cobalt	mg/kg		0.029	0.029	0.43	4 / 4	0.1943
Inorganic	Copper	mg/kg		0.67	0.67	4.2	4 / 4	2.018
Inorganic	Iron	mg/kg		20.2	20.2	576	4 / 4	266.7
Inorganic	Lead	mg/kg		0.086	0.086	0.65	4 / 4	0.349
Inorganic	Magnesium	mg/kg		585	585	830	4 / 4	718.8
Inorganic	Manganese	mg/kg		14.3	14.3	88.6	4 / 4	58.83
Inorganic	Mercury	mg/kg		0.031	0.031	0.041	4 / 4	0.0345
Inorganic	Molybdenum	mg/kg		0.094	0.094	0.61	4 / 4	0.2535
Inorganic	Nickel	mg/kg		0.1	0.1	0.8	4 / 4	0.4725
Inorganic	Potassium	mg/kg		2060	2060	2300	4 / 4	2170
Inorganic	Selenium	mg/kg		0.61	0.61	1.3	4 / 4	0.96
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 4	0
Inorganic	Sodium	mg/kg		1490	1490	1560	4 / 4	1513
Inorganic	Strontium	mg/kg		25	25	39	4 / 4	31.8
Inorganic	Thallium	mg/kg	0.014 / 0.035	ND	ND	ND	0 / 4	0
Inorganic	Vanadium	mg/kg		0.35	0.35	1.7	4 / 4	1.163
Inorganic	Zinc	mg/kg		34	34	43	4 / 4	38.4
Physical Properties	% Lipids	%		0.8	0.8	3.1	4 / 4	2.075
Physical Properties	% Moisture	%		67.5	67.5	72.9	4 / 4	70.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L- 9: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.1	ND	ND	ND	0 / 7	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.086	0.086	0.29	7 / 7	0.1416
Inorganic	Barium	mg/kg	0.042 / 0.043	ND	0.061	0.68	6 / 7	0.2272
Inorganic	Beryllium	mg/kg	0.027 / 0.0617	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0159	ND	ND	ND	0 / 7	0
Inorganic	Calcium	mg/kg		217	217	15100	7 / 7	3437
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 7	0
Inorganic	Copper	mg/kg		0.17	0.17	0.31	7 / 7	0.2471
Inorganic	Iron	mg/kg	11.1 / 12.3	ND	ND	ND	0 / 7	0
Inorganic	Lead	mg/kg	0.026 / 0.029	ND	ND	ND	0 / 7	0
Inorganic	Magnesium	mg/kg		295	295	504	7 / 7	349.4
Inorganic	Manganese	mg/kg	0.16 / 0.16	ND	0.24	3.4	6 / 7	1.532
Inorganic	Mercury	mg/kg		0.044	0.044	0.065	7 / 7	0.054
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	0.045	0.047	2 / 7	0.046
Inorganic	Nickel	mg/kg	0.09 / 0.1	ND	ND	ND	0 / 7	0
Inorganic	Potassium	mg/kg		2950	2950	3710	7 / 7	3404
Inorganic	Selenium	mg/kg		0.51	0.51	1.3	7 / 7	1.06
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		277	277	723	7 / 7	436
Inorganic	Strontium	mg/kg		0.13	0.13	14.3	7 / 7	3.137
Inorganic	Thallium	mg/kg	0.013 / 0.02	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.042 / 0.0936	ND	0.066	0.074	2 / 7	0.07
Inorganic	Zinc	mg/kg		11.5	11.5	17.4	7 / 7	13.83
Physical Properties	% Lipids	%		0.37	0.37	0.59	7 / 7	0.4843
Physical Properties	% Moisture	%		73.3	73.3	80.6	7 / 7	78.36

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-10: TVA SAP Sampling, Fall 2010 - Bluegill Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.782 / 4.121	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01374 / 0.01491	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.03332	0.03332	0.1128	6 / 6	0.06953
Inorganic	Barium	mg/kg	0.04305 / 0.04669	ND	0.0504	0.246	3 / 6	0.116
Inorganic	Beryllium	mg/kg	0.05713 / 0.06138	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3895 / 0.4263	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00729 / 0.00792	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		165.9	165.9	2747	6 / 6	664
Inorganic	Chromium	mg/kg	0.1202 / 0.1302	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0134 / 0.01449	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.203	0.203	0.3485	6 / 6	0.2686
Inorganic	Iron	mg/kg	11.41 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02561 / 0.0294	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		264	264	325.5	6 / 6	292.7
Inorganic	Manganese	mg/kg	0.1615 / 0.1686	ND	0.198	1.579	5 / 6	0.5315
Inorganic	Mercury	mg/kg		0.041	0.041	0.08036	6 / 6	0.05826
Inorganic	Molybdenum	mg/kg	0.0328 / 0.03654	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09259 / 0.1015	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3214	3214	3927	6 / 6	3427
Inorganic	Selenium	mg/kg		1.087	1.087	1.525	6 / 6	1.313
Inorganic	Silver	mg/kg	0.00267 / 0.00305	ND	0.00455	0.00455	1 / 6	0.004554
Inorganic	Sodium	mg/kg		356.7	356.7	437.3	6 / 6	399.1
Inorganic	Strontium	mg/kg		0.1543	0.1543	2.727	6 / 6	0.6417
Inorganic	Thallium	mg/kg	0.013 / 0.01421	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04305 / 0.04669	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		16.13	16.13	23.99	6 / 6	18.77
Physical Properties	% Lipids	%		0.69	0.69	1.5	6 / 6	1.048
Physical Properties	% Moisture	%		79	79	80.4	6 / 6	79.85
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.121 / 0.184	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0008 / 0.002	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.121 / 0.184	ND	ND	ND	0 / 6	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-11: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.66 / 4.154	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.0132 / 0.01496	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02562 / 0.02992	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.042 / 0.04752	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.026 / 0.02992	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.4224	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.007 / 0.00792	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		77.96	77.96	103.5	6 / 6	87.25
Inorganic	Chromium	mg/kg	0.116 / 0.132	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.0128 / 0.01461	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.02562	0.02562	1.037	6 / 6	0.3959
Inorganic	Iron	mg/kg	11 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02562 / 0.02816	ND	0.04224	0.04224	1 / 6	0.04224
Inorganic	Magnesium	mg/kg		247.1	247.1	306.7	6 / 6	270.3
Inorganic	Manganese	mg/kg	0.156 / 0.1665	ND	0.1728	0.2288	3 / 6	0.1932
Inorganic	Mercury	mg/kg		0.00877	0.00877	0.1549	6 / 6	0.05651
Inorganic	Molybdenum	mg/kg	0.032 / 0.03696	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.09 / 0.1021	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		4013	4013	4708	6 / 6	4419
Inorganic	Selenium	mg/kg		0.04654	0.04654	0.3264	6 / 6	0.2107
Inorganic	Silver	mg/kg	0.0026 / 0.00299	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		341.9	341.9	428	6 / 6	379.3
Inorganic	Strontium	mg/kg		0.01271	0.01271	0.06336	6 / 6	0.0427
Inorganic	Thallium	mg/kg	0.0126 / 0.01426	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.04752	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		0.8235	0.8235	7.98	6 / 6	4.535
Physical Properties	% Lipids	%		0.5	0.5	1.4	6 / 6	1.083
Physical Properties	% Moisture	%		78.7	78.7	82.4	6 / 6	80.95

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-12: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.41	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0076	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		65.6	65.6	93.7	6 / 6	84.68
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.21	0.21	0.49	6 / 6	0.3467
Inorganic	Iron	mg/kg	10.9 / 12	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		200	200	269	6 / 6	248.3
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.042	0.042	0.24	6 / 6	0.1078
Inorganic	Molybdenum	mg/kg	0.032 / 0.035	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.097	ND	0.11	0.13	2 / 6	0.12
Inorganic	Potassium	mg/kg		3450	3450	4040	6 / 6	3810
Inorganic	Selenium	mg/kg		0.19	0.19	0.23	6 / 6	0.2067
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		359	359	591	6 / 6	443.8
Inorganic	Strontium	mg/kg		0.054	0.054	0.094	6 / 6	0.0715
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5	5	10	6 / 6	7.367
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.0649	0.0649	0.0649	1 / 1	0.0649
Organic-PCBs	PCB-1260	mg/kg		0.176	0.176	0.176	1 / 1	0.176
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0088	0.0088	0.0088	1 / 1	0.0088
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-12: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0026	0.0026	0.0026	1 / 1	0.0026
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.24	0.24	2.8	7 / 7	1.591
Physical Properties	% Moisture	%		77.7	77.7	84.5	7 / 7	80.3
Radionuclides	Actinium-228	pCi/g	0.08549 / 0.08549	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.1004 / 0.1004	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.05444 / 0.05444	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02256 / 0.02256	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02836 / 0.02836	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03519 / 0.03519	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04761 / 0.04761	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.457	3.457	3.457	1 / 1	3.457
Radionuclides	Radium-226	pCi/g	0.04078 / 0.04078	ND	ND	ND	0 / 1	0
Radionuclides	Radium-228	pCi/g	0.08549 / 0.08549	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02546 / 0.02546	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.09998 / 0.09998	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.08508 / 0.08508	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.09356 / 0.09356	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.8942 / 0.8942	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.09812 / 0.09812	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.05196 / 0.05196	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.09232 / 0.09232	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-12: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.131 / 0.194	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0004 / 0.0008	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.131 / 0.194	ND	ND	ND	0 / 6	0

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-13: TVA SAP Sampling, Fall 2010 - Channel Catfish Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	6.3	6.3	1 / 6	6.3
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.028	ND	0.034	0.06	2 / 6	0.047
Inorganic	Barium	mg/kg		1.1	1.1	4.7	6 / 6	2.383
Inorganic	Beryllium	mg/kg	0.054 / 0.062	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.016	0.016	0.034	6 / 6	0.02133
Inorganic	Calcium	mg/kg		15700	15700	25400	6 / 6	20050
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.13	0.13	1 / 6	0.13
Inorganic	Cobalt	mg/kg		0.036	0.036	0.2	6 / 6	0.081
Inorganic	Copper	mg/kg		0.36	0.36	3.2	6 / 6	0.9567
Inorganic	Iron	mg/kg		20.3	20.3	44	6 / 6	28.75
Inorganic	Lead	mg/kg		0.061	0.061	0.14	6 / 6	0.09917
Inorganic	Magnesium	mg/kg		357	357	490	6 / 6	419.2
Inorganic	Manganese	mg/kg		6.2	6.2	33.6	6 / 6	18.92
Inorganic	Mercury	mg/kg		0.021	0.021	0.13	6 / 6	0.05733
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.087 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2010	2010	2320	6 / 6	2140
Inorganic	Selenium	mg/kg		0.3	0.3	0.44	6 / 6	0.3833
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	0.0039	0.0039	1 / 6	0.0039
Inorganic	Sodium	mg/kg		1420	1420	1730	6 / 6	1565
Inorganic	Strontium	mg/kg		10.1	10.1	28	6 / 6	18.3
Inorganic	Thallium	mg/kg	0.014 / 0.04	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.052	0.052	0.2	6 / 6	0.09617
Inorganic	Zinc	mg/kg		23.7	23.7	36.8	6 / 6	31
Physical Properties	% Lipids	%		1.6	1.6	7.8	6 / 6	3.733
Physical Properties	% Moisture	%		70.5	70.5	77.2	6 / 6	74.57

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-14: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.7 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.026 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Barium	mg/kg	0.042 / 0.044	ND	0.043	0.6	5 / 6	0.1602
Inorganic	Beryllium	mg/kg	0.055 / 0.061	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.007 / 0.0077	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		134	134	2950	6 / 6	704.7
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	0.019	0.035	2 / 6	0.027
Inorganic	Copper	mg/kg		0.23	0.23	0.77	6 / 6	0.4267
Inorganic	Iron	mg/kg	11 / 12.2	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		220	220	257	6 / 6	232.2
Inorganic	Manganese	mg/kg		0.19	0.19	4.5	6 / 6	0.9867
Inorganic	Mercury	mg/kg		0.03	0.03	0.26	6 / 6	0.1105
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.094	ND	0.11	0.14	3 / 6	0.12
Inorganic	Potassium	mg/kg		3770	3770	3990	6 / 6	3852
Inorganic	Selenium	mg/kg		0.19	0.19	0.29	6 / 6	0.24
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		350	350	417	6 / 6	377.8
Inorganic	Strontium	mg/kg		0.13	0.13	3.1	6 / 6	0.7
Inorganic	Thallium	mg/kg	0.037 / 0.041	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.1	6.1	8.5	6 / 6	7.533
Physical Properties	% Lipids	%		0.6	0.6	2.7	6 / 6	1.553
Physical Properties	% Moisture	%		80.2	80.2	82.5	6 / 6	81.1

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-15: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.026 / 0.028	ND	0.032	0.032	1 / 6	0.032
Inorganic	Barium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0076	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		64.5	64.5	80.3	6 / 6	73.33
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.25	0.25	1.1	6 / 6	0.4317
Inorganic	Iron	mg/kg	11 / 12.1	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	0.031	0.031	1 / 6	0.031
Inorganic	Magnesium	mg/kg		240	240	288	6 / 6	259.5
Inorganic	Manganese	mg/kg	0.16 / 0.17	ND	0.2	0.22	2 / 6	0.21
Inorganic	Mercury	mg/kg		0.05	0.05	0.098	6 / 6	0.074
Inorganic	Molybdenum	mg/kg	0.032 / 0.035	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.098	ND	0.1	0.1	1 / 6	0.1
Inorganic	Potassium	mg/kg		3570	3570	4580	6 / 6	4170
Inorganic	Selenium	mg/kg		0.25	0.25	0.44	6 / 6	0.3717
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		292	292	396	6 / 6	355.8
Inorganic	Strontium	mg/kg		0.05	0.05	0.11	6 / 6	0.0685
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		5.4	5.4	7.9	6 / 6	6.617
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.126	0.126	0.126	1 / 1	0.126
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0056	0.0056	0.0056	1 / 1	0.0056
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-15: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		1.1	1.1	2.6	7 / 7	1.614
Physical Properties	% Moisture	%		77.8	77.8	81.3	7 / 7	79.89
Radionuclides	Actinium-228	pCi/g	0.07457 / 0.07457	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.04264 / 0.04264	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.03935 / 0.03935	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.01938 / 0.01938	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02678 / 0.02678	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.02946 / 0.02946	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.03708 / 0.03708	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		2.884	2.884	2.884	1 / 1	2.884
Radionuclides	Radium-226	pCi/g		0.09043	0.09043	0.09043	1 / 1	0.09043
Radionuclides	Radium-228	pCi/g	0.07457 / 0.07457	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.01677 / 0.01677	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.08899 / 0.08899	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.0754 / 0.0754	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.0651 / 0.0651	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.3584 / 0.3584	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.04573 / 0.04573	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.05644 / 0.05644	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.04573 / 0.04573	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-15: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.003 / 0.006	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.159 / 0.19	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0009 / 0.004	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.006	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.159 / 0.19	ND	ND	ND	0 / 6	0

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-16: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.025 / 0.029	ND	0.07293	0.07293	1 / 6	0.07293
Inorganic	Barium	mg/kg	0.041 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.026 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.00751	ND	0.018	0.018	1 / 6	0.018
Inorganic	Calcium	mg/kg		57.24	57.24	113	6 / 6	78.15
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.28	0.28	0.646	6 / 6	0.4236
Inorganic	Iron	mg/kg	10.8 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		227.6	227.6	272	6 / 6	256.2
Inorganic	Manganese	mg/kg	0.15 / 0.18	ND	0.2	0.2	1 / 6	0.2
Inorganic	Mercury	mg/kg		0.044	0.044	0.11	6 / 6	0.0742
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	0.1102	0.1102	1 / 6	0.1102
Inorganic	Potassium	mg/kg		3890	3890	4320	6 / 6	4077
Inorganic	Selenium	mg/kg		0.29	0.29	0.53	6 / 6	0.3796
Inorganic	Silver	mg/kg	0.0026 / 0.0041	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		338.2	338.2	441	6 / 6	396.9
Inorganic	Strontium	mg/kg		0.054	0.054	0.11	6 / 6	0.07378
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.8	4.8	8.3	6 / 6	6.468
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.0592	0.0592	0.0592	1 / 1	0.0592
Organic-PCBs	PCB-1260	mg/kg		0.119	0.119	0.119	1 / 1	0.119
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0081	0.0081	0.0081	1 / 1	0.0081
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-16: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.0026	0.0026	0.0026	1 / 1	0.0026
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		1.1	1.1	5.5	7 / 7	2.057
Physical Properties	% Moisture	%		77.9	77.9	81.8	7 / 7	80.29
Radionuclides	Actinium-228	pCi/g	0.1029 / 0.1029	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.06814 / 0.06814	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.05427 / 0.05427	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02271 / 0.02271	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02593 / 0.02593	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03839 / 0.03839	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04643 / 0.04643	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.578	3.578	3.578	1 / 1	3.578
Radionuclides	Radium-226	pCi/g		0.1095	0.1095	0.1095	1 / 1	0.1095
Radionuclides	Radium-228	pCi/g	0.1029 / 0.1029	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02432 / 0.02432	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.1184 / 0.1184	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.07859 / 0.07859	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.04241 / 0.04241	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.597 / 0.597	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.0392 / 0.0392	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.04864 / 0.04864	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.07256 / 0.07256	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-16: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.126 / 0.192	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0004 / 0.003	ND	0.0004	0.001	2 / 6	0.0007
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.126 / 0.192	ND	ND	ND	0 / 6	0

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-17: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.64 / 4.12	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.0131 / 0.0148	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02548 / 0.02886	ND	0.0339	0.0819	3 / 6	0.0554
Inorganic	Barium	mg/kg	0.04176 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.0273 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3822 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00692 / 0.00756	ND	0.0196	0.0196	1 / 6	0.0196
Inorganic	Calcium	mg/kg		56.34	56.34	72.59	6 / 6	65.41
Inorganic	Chromium	mg/kg	0.1165 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01274 / 0.0144	ND	0.01399	0.01831	2 / 6	0.01615
Inorganic	Copper	mg/kg		0.261	0.261	0.4746	6 / 6	0.3561
Inorganic	Iron	mg/kg	10.97 / 12.38	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02548 / 0.028	ND	0.02712	0.02712	1 / 6	0.02712
Inorganic	Magnesium	mg/kg		194.9	194.9	257.5	6 / 6	229.6
Inorganic	Manganese	mg/kg	0.1547 / 0.176	ND	0.273	0.273	1 / 6	0.273
Inorganic	Mercury	mg/kg		0.0455	0.0455	0.174	6 / 6	0.08588
Inorganic	Molybdenum	mg/kg	0.03276 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08918 / 0.1	ND	0.2131	0.2131	1 / 6	0.2131
Inorganic	Potassium	mg/kg		3637	3637	3910	6 / 6	3828
Inorganic	Selenium	mg/kg		0.1494	0.1494	0.3774	6 / 6	0.2648
Inorganic	Silver	mg/kg	0.00255 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		296.7	296.7	448	6 / 6	380.7
Inorganic	Strontium	mg/kg		0.0612	0.0612	0.07684	6 / 6	0.07089
Inorganic	Thallium	mg/kg	0.01256 / 0.0142	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04176 / 0.046	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		4.333	4.333	6.016	6 / 6	5.306
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.0687	0.0687	0.0687	1 / 1	0.0687
Organic-PCBs	PCB-1260	mg/kg		0.153	0.153	0.153	1 / 1	0.153
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0069	0.0069	0.0069	1 / 1	0.0069
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.005	0.005	0.005	1 / 1	0.005
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-17: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg		0.003	0.003	0.003	1 / 1	0.003
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		1	1	4.8	7 / 7	2.414
Physical Properties	% Moisture	%		77.4	77.4	82.6	7 / 7	80.19
Radionuclides	Actinium-228	pCi/g	0.1244 / 0.1244	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.1083 / 0.1083	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.07196 / 0.07196	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.03317 / 0.03317	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.03417 / 0.03417	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.05507 / 0.05507	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.06633 / 0.06633	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.518	3.518	3.518	1 / 1	3.518
Radionuclides	Radium-226	pCi/g		0.05889	0.05889	0.05889	1 / 1	0.05889
Radionuclides	Radium-228	pCi/g	0.1244 / 0.1244	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02894 / 0.02894	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.09909 / 0.09909	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.08965 / 0.08965	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.0406 / 0.0406	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	1.045 / 1.045	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.08161 / 0.08161	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.07919 / 0.07919	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.06412 / 0.06412	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-17: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.125 / 0.196	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0005 / 0.001	ND	0.0006	0.001	4 / 6	0.000825
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.125 / 0.196	ND	ND	ND	0 / 6	0

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-18: TVA SAP Sampling, Fall 2010 - Channel Catfish Carcass at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4	ND	5.9	47.7	3 / 5	23.63
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.025 / 0.028	ND	0.034	0.1	3 / 5	0.06233
Inorganic	Barium	mg/kg		0.9	0.9	10	5 / 5	3.32
Inorganic	Beryllium	mg/kg	0.029 / 0.0532	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.37 / 0.42	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg		0.0083	0.0083	0.017	5 / 5	0.01406
Inorganic	Calcium	mg/kg		13200	13200	21200	5 / 5	16460
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	0.18	0.18	1 / 5	0.18
Inorganic	Cobalt	mg/kg		0.04	0.04	0.12	5 / 5	0.0794
Inorganic	Copper	mg/kg		0.55	0.55	1.1	5 / 5	0.7
Inorganic	Iron	mg/kg		21.8	21.8	87.1	5 / 5	43.6
Inorganic	Lead	mg/kg		0.095	0.095	0.21	5 / 5	0.123
Inorganic	Magnesium	mg/kg		349	349	490	5 / 5	407.6
Inorganic	Manganese	mg/kg		4.9	4.9	27.8	5 / 5	11.82
Inorganic	Mercury	mg/kg		0.022	0.022	0.13	5 / 5	0.0694
Inorganic	Molybdenum	mg/kg	0.031 / 0.035	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.087 / 0.095	ND	0.13	3.6	3 / 5	1.29
Inorganic	Potassium	mg/kg		2030	2030	2200	5 / 5	2072
Inorganic	Selenium	mg/kg		0.3	0.3	0.57	5 / 5	0.424
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		1270	1270	1500	5 / 5	1392
Inorganic	Strontium	mg/kg		10.4	10.4	20.4	5 / 5	14.38
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg		0.049	0.049	0.21	5 / 5	0.1298
Inorganic	Zinc	mg/kg		22.4	22.4	31.8	5 / 5	27.12
Physical Properties	% Lipids	%		1.3	1.3	7.7	5 / 5	3.22
Physical Properties	% Moisture	%		70.6	70.6	77.5	5 / 5	75.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-19: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 5	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg	0.025 / 0.0573	ND	ND	ND	0 / 5	0
Inorganic	Barium	mg/kg	0.041 / 0.048	ND	ND	ND	0 / 5	0
Inorganic	Beryllium	mg/kg	0.027 / 0.0612	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0158	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		99.7	99.7	225	5 / 5	149.5
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	0.015	0.027	2 / 5	0.021
Inorganic	Copper	mg/kg		0.34	0.34	1.1	5 / 5	0.658
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 5	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	ND	ND	0 / 5	0
Inorganic	Magnesium	mg/kg		222	222	268	5 / 5	249.2
Inorganic	Manganese	mg/kg		0.16	0.16	0.84	5 / 5	0.326
Inorganic	Mercury	mg/kg		0.036	0.036	0.21	5 / 5	0.1196
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		3470	3470	4260	5 / 5	3800
Inorganic	Selenium	mg/kg		0.17	0.17	0.4	5 / 5	0.254
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		341	341	427	5 / 5	382.2
Inorganic	Strontium	mg/kg		0.063	0.063	0.24	5 / 5	0.1268
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.041 / 0.0928	ND	ND	ND	0 / 5	0
Inorganic	Zinc	mg/kg		7.6	7.6	10.6	5 / 5	8.72
Physical Properties	% Lipids	%		0.62	0.62	5.6	5 / 5	2.284
Physical Properties	% Moisture	%		76.8	76.8	82.1	5 / 5	78.94

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-20: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.627 / 4.138	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01308 / 0.01505	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg	0.02626 / 0.05597	ND	0.02508	0.04646	2 / 6	0.03577
Inorganic	Barium	mg/kg	0.04092 / 0.04807	ND	0.00848	0.00848	1 / 6	0.008484
Inorganic	Beryllium	mg/kg	0.02626 / 0.05983	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.372 / 0.4389	ND	ND	ND	0 / 6	0

Inorganic	Cadmium	mg/kg	0.00687 / 0.00794	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		66.86	66.86	86.46	6 / 6	76.19
Inorganic	Chromium	mg/kg	0.1151 / 0.1317	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01283 / 0.01463	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.04725	0.04725	0.5597	6 / 6	0.221
Inorganic	Iron	mg/kg	10.94 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02532 / 0.02926	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		236.3	236.3	259.5	6 / 6	251.1
Inorganic	Manganese	mg/kg	0.1544 / 0.1756	ND	0.03232	0.2321	2 / 6	0.1322
Inorganic	Mercury	mg/kg		0.00878	0.00878	0.1372	6 / 6	0.07003
Inorganic	Molybdenum	mg/kg	0.03162 / 0.03591	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08862 / 0.1003	ND	0.02828	0.02828	1 / 6	0.02828
Inorganic	Potassium	mg/kg		3840	3840	4516	6 / 6	4119
Inorganic	Selenium	mg/kg		0.0567	0.0567	0.4278	6 / 6	0.2305
Inorganic	Silver	mg/kg	0.00253 / 0.00293	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		338.5	338.5	463.2	6 / 6	381.9
Inorganic	Strontium	mg/kg		0.01285	0.01285	0.07676	6 / 6	0.04593
Inorganic	Thallium	mg/kg	0.01246 / 0.01421	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04092 / 0.04807	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		1.191	1.191	8.338	6 / 6	3.923
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg		0.0917	0.0917	0.0917	1 / 1	0.0917
Organic-PCBs	PCB-1260	mg/kg		0.188	0.188	0.188	1 / 1	0.188
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg		0.0097	0.0097	0.0097	1 / 1	0.0097
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg		0.0057	0.0057	0.0057	1 / 1	0.0057
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-20: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.57	0.57	1.8	7 / 7	0.9329
Physical Properties	% Moisture	%		78.9	78.9	81.4	7 / 7	80.31
Radionuclides	Actinium-228	pCi/g	0.0841 / 0.0841	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.08774 / 0.08774	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.04723 / 0.04723	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02074 / 0.02074	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02112 / 0.02112	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03187 / 0.03187	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04339 / 0.04339	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.494	3.494	3.494	1 / 1	3.494
Radionuclides	Radium-226	pCi/g		0.06182	0.06182	0.06182	1 / 1	0.06182
Radionuclides	Radium-228	pCi/g	0.0841 / 0.0841	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.01907 / 0.01907	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.09235 / 0.09235	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.07757 / 0.07757	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.04186 / 0.04186	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.8006 / 0.8006	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.07834 / 0.07834	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.08141 / 0.08141	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.06586 / 0.06586	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-20: TVA SAP Sampling, Fall 2010 - Channel Catfish Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.001 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.118 / 0.191	ND	ND	ND	0 / 6	0
Speciation	Arsenite	mg/kg	0.0003 / 0.0008	ND	0.001	0.002	3 / 6	0.001667
Speciation	Inorganic Arsenic	mg/kg	0.001 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.118 / 0.191	ND	ND	ND	0 / 6	0

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-21: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		54.8	54.8	90.2	3 / 3	69
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.47	0.47	0.51	3 / 3	0.4933
Inorganic	Barium	mg/kg		0.27	0.27	0.45	3 / 3	0.3467
Inorganic	Beryllium	mg/kg	0.054 / 0.057	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 0.39	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.023	0.023	0.03	3 / 3	0.02733
Inorganic	Calcium	mg/kg		152	152	286	3 / 3	214
Inorganic	Chromium	mg/kg		0.77	0.77	2.1	3 / 3	1.323
Inorganic	Cobalt	mg/kg		0.12	0.12	0.14	3 / 3	0.1267
Inorganic	Copper	mg/kg		1.9	1.9	2.1	3 / 3	2
Inorganic	Iron	mg/kg		132	132	166	3 / 3	144.7
Inorganic	Lead	mg/kg		0.045	0.045	0.076	3 / 3	0.059
Inorganic	Magnesium	mg/kg		160	160	164	3 / 3	161.7
Inorganic	Manganese	mg/kg		1.5	1.5	1.8	3 / 3	1.633
Inorganic	Mercury	mg/kg		0.024	0.024	0.025	3 / 3	0.02467
Inorganic	Molybdenum	mg/kg		0.11	0.11	0.14	3 / 3	0.12
Inorganic	Nickel	mg/kg		0.45	0.45	1.1	3 / 3	0.72
Inorganic	Potassium	mg/kg		2540	2540	2640	3 / 3	2593
Inorganic	Selenium	mg/kg		1	1	1.1	3 / 3	1.067
Inorganic	Silver	mg/kg	0.0094 / 0.011	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		1330	1330	1470	3 / 3	1390
Inorganic	Strontium	mg/kg		0.099	0.099	0.19	3 / 3	0.1363
Inorganic	Thallium	mg/kg	0.012 / 0.017	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.15	0.15	0.23	3 / 3	0.1933
Inorganic	Zinc	mg/kg		22.6	22.6	26.1	3 / 3	24.23
Physical Properties	% Lipids	%		1.8	1.8	2.1	3 / 3	1.967
Physical Properties	% Moisture	%		84.5	84.5	84.7	3 / 3	84.6

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-22: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 3.9	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.2	0.2	0.25	3 / 3	0.2167
Inorganic	Barium	mg/kg		2.1	2.1	2.6	3 / 3	2.367
Inorganic	Beryllium	mg/kg	0.054 / 0.058	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 0.4	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0074	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		8820	8820	12800	3 / 3	10707
Inorganic	Chromium	mg/kg	0.11 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.032	0.032	0.038	3 / 3	0.03567
Inorganic	Copper	mg/kg		0.51	0.51	6.3	3 / 3	2.603
Inorganic	Iron	mg/kg		11.9	11.9	14.8	3 / 3	13.3
Inorganic	Lead	mg/kg		0.039	0.039	0.045	3 / 3	0.04167
Inorganic	Magnesium	mg/kg		304	304	355	3 / 3	329.3
Inorganic	Manganese	mg/kg		19.5	19.5	25.3	3 / 3	21.63
Inorganic	Mercury	mg/kg		0.012	0.012	0.015	3 / 3	0.01333
Inorganic	Molybdenum	mg/kg	0.032 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.088 / 0.095	ND	0.25	0.25	1 / 3	0.25
Inorganic	Potassium	mg/kg		2640	2640	2800	3 / 3	2697
Inorganic	Selenium	mg/kg		0.38	0.38	0.46	3 / 3	0.4067
Inorganic	Silver	mg/kg	0.0026 / 0.0028	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		961	961	1070	3 / 3	1034
Inorganic	Strontium	mg/kg		5.3	5.3	8.2	3 / 3	6.7
Inorganic	Thallium	mg/kg	0.012 / 0.013	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.041 / 0.045	ND	0.06	0.06	1 / 3	0.06
Inorganic	Zinc	mg/kg		14.8	14.8	16	3 / 3	15.57
Physical Properties	% Lipids	%		4.6	4.6	6.6	3 / 3	5.533
Physical Properties	% Moisture	%		74.6	74.6	75.5	3 / 3	75.07

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-23: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		17.8	17.8	1320	5 / 5	517.6
Inorganic	Antimony	mg/kg	0.013 / 0.1	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.72	0.72	1.2	5 / 5	0.968
Inorganic	Barium	mg/kg		0.22	0.22	15	5 / 5	5.784
Inorganic	Beryllium	mg/kg	0.027 / 0.058	ND	0.063	0.069	2 / 5	0.066
Inorganic	Boron	mg/kg	0.38 / 0.4	ND	0.57	0.67	2 / 5	0.62
Inorganic	Cadmium	mg/kg		0.034	0.034	0.051	5 / 5	0.0448
Inorganic	Calcium	mg/kg		219	219	617	5 / 5	355.6
Inorganic	Chromium	mg/kg	0.12 / 0.12	ND	4.7	5.2	2 / 5	4.95
Inorganic	Cobalt	mg/kg		0.11	0.11	1.2	5 / 5	0.55
Inorganic	Copper	mg/kg		2.8	2.8	7	5 / 5	4.98
Inorganic	Iron	mg/kg		64.5	64.5	1700	5 / 5	696
Inorganic	Lead	mg/kg	0.026 / 0.027	ND	0.038	1.3	3 / 5	0.846
Inorganic	Magnesium	mg/kg		167	167	349	5 / 5	237.6
Inorganic	Manganese	mg/kg		1.5	1.5	88.3	5 / 5	34.46
Inorganic	Mercury	mg/kg		0.011	0.011	0.025	5 / 5	0.0196
Inorganic	Molybdenum	mg/kg		0.089	0.089	0.26	5 / 5	0.1458
Inorganic	Nickel	mg/kg	0.09 / 0.09	ND	0.12	3.3	4 / 5	1.66
Inorganic	Potassium	mg/kg		2360	2360	2530	5 / 5	2450
Inorganic	Selenium	mg/kg		1.1	1.1	1.8	5 / 5	1.5
Inorganic	Silver	mg/kg	0.0027 / 0.0082	ND	0.025	0.039	3 / 5	0.033
Inorganic	Sodium	mg/kg		1070	1070	1220	5 / 5	1140
Inorganic	Strontium	mg/kg		0.2	0.2	1.2	5 / 5	0.592
Inorganic	Thallium	mg/kg	0.038 / 0.083	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg	0.042 / 0.042	ND	0.056	2.2	4 / 5	1.108
Inorganic	Zinc	mg/kg		23.9	23.9	34.1	5 / 5	28.16
Physical Properties	% Lipids	%		1.2	1.2	3.6	5 / 5	2.46
Physical Properties	% Moisture	%		79.5	79.5	83.7	5 / 5	81.32

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-24: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	5.8	7.5	2 / 3	6.65
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.37	0.37	0.4	3 / 3	0.38
Inorganic	Barium	mg/kg		2.3	2.3	2.7	3 / 3	2.567
Inorganic	Beryllium	mg/kg	0.054 / 0.061	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.014 / 0.016	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		7260	7260	8440	3 / 3	7953
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.045	0.045	0.05	3 / 3	0.04767
Inorganic	Copper	mg/kg		1	1	1.7	3 / 3	1.3
Inorganic	Iron	mg/kg		17.3	17.3	20.6	3 / 3	19.3
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	0.045	0.05	2 / 3	0.0475
Inorganic	Magnesium	mg/kg		279	279	287	3 / 3	283
Inorganic	Manganese	mg/kg		21.6	21.6	26.6	3 / 3	24.73
Inorganic	Mercury	mg/kg	0.01 / 0.012	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.088 / 0.1	ND	0.19	0.19	1 / 3	0.19
Inorganic	Potassium	mg/kg		2470	2470	2540	3 / 3	2510
Inorganic	Selenium	mg/kg		0.59	0.59	0.71	3 / 3	0.65
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		924	924	951	3 / 3	938
Inorganic	Strontium	mg/kg		6.3	6.3	7.5	3 / 3	6.967
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	0.058	0.064	2 / 3	0.061
Inorganic	Zinc	mg/kg		20.9	20.9	21.5	3 / 3	21.2
Physical Properties	% Lipids	%		5.3	5.3	6.2	3 / 3	5.767
Physical Properties	% Moisture	%		77.4	77.4	78.2	3 / 3	77.83

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-25: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	8.1	9.2	2 / 5	8.65
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 5	0
Inorganic	Arsenic	mg/kg		0.13	0.13	0.38	5 / 5	0.288
Inorganic	Barium	mg/kg		2.8	2.8	4.4	5 / 5	3.3
Inorganic	Beryllium	mg/kg	0.053 / 0.061	ND	ND	ND	0 / 5	0
Inorganic	Boron	mg/kg	0.37 / 0.42	ND	ND	ND	0 / 5	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.016	ND	ND	ND	0 / 5	0
Inorganic	Calcium	mg/kg		9030	9030	13900	5 / 5	10824
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 5	0
Inorganic	Cobalt	mg/kg		0.036	0.036	0.052	5 / 5	0.0414
Inorganic	Copper	mg/kg		0.54	0.54	2.1	5 / 5	1.01
Inorganic	Iron	mg/kg		12.4	12.4	21.2	5 / 5	15.94
Inorganic	Lead	mg/kg		0.038	0.038	0.059	5 / 5	0.0498
Inorganic	Magnesium	mg/kg		295	295	357	5 / 5	317.6
Inorganic	Manganese	mg/kg		27.4	27.4	29.3	5 / 5	28.22
Inorganic	Mercury	mg/kg	0.01 / 0.012	ND	0.012	0.013	2 / 5	0.0125
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 5	0
Inorganic	Nickel	mg/kg	0.087 / 0.099	ND	ND	ND	0 / 5	0
Inorganic	Potassium	mg/kg		2380	2380	2590	5 / 5	2476
Inorganic	Selenium	mg/kg		0.49	0.49	0.64	5 / 5	0.582
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 5	0
Inorganic	Sodium	mg/kg		852	852	1110	5 / 5	949.2
Inorganic	Strontium	mg/kg		7.6	7.6	10.7	5 / 5	8.72
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 5	0
Inorganic	Vanadium	mg/kg		0.06	0.06	0.1	5 / 5	0.0708
Inorganic	Zinc	mg/kg		16.7	16.7	22.2	5 / 5	19.78
Physical Properties	% Lipids	%		3.1	3.1	6.7	5 / 5	5.24
Physical Properties	% Moisture	%		76.1	76.1	78.4	5 / 5	77.04

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-26: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 2.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		97.5	97.5	159	3 / 3	132.5
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.78	0.78	1	3 / 3	0.9
Inorganic	Barium	mg/kg		1	1	1.3	3 / 3	1.167
Inorganic	Beryllium	mg/kg	0.03 / 0.055	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.038	0.038	0.043	3 / 3	0.04133
Inorganic	Calcium	mg/kg		357	357	425	3 / 3	381.3
Inorganic	Chromium	mg/kg		0.18	0.18	0.25	3 / 3	0.22
Inorganic	Cobalt	mg/kg		0.15	0.15	0.15	3 / 3	0.15
Inorganic	Copper	mg/kg		4.5	4.5	6.2	3 / 3	5.367
Inorganic	Iron	mg/kg		131	131	185	3 / 3	164.7
Inorganic	Lead	mg/kg		0.082	0.082	0.11	3 / 3	0.1007
Inorganic	Magnesium	mg/kg		175	175	188	3 / 3	183.3
Inorganic	Manganese	mg/kg		2.1	2.1	8.4	3 / 3	4.567
Inorganic	Mercury	mg/kg		0.012	0.012	0.017	3 / 3	0.01433
Inorganic	Molybdenum	mg/kg		0.093	0.093	0.11	3 / 3	0.101
Inorganic	Nickel	mg/kg		0.18	0.18	0.22	3 / 3	0.2
Inorganic	Potassium	mg/kg		2680	2680	2710	3 / 3	2700
Inorganic	Selenium	mg/kg		1.4	1.4	1.5	3 / 3	1.467
Inorganic	Silver	mg/kg		0.024	0.024	0.027	3 / 3	0.02533
Inorganic	Sodium	mg/kg		1120	1120	1270	3 / 3	1217
Inorganic	Strontium	mg/kg		0.33	0.33	0.43	3 / 3	0.3833
Inorganic	Thallium	mg/kg	0.042 / 0.074	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.17	0.17	0.21	3 / 3	0.1967
Inorganic	Zinc	mg/kg		30.8	30.8	36.7	3 / 3	33.7
Physical Properties	% Lipids	%		3.7	3.7	5.7	3 / 3	4.467
Physical Properties	% Moisture	%		80.4	80.4	82.3	3 / 3	81.13

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-27: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body at Emory River Mile 2.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		9.5	9.5	75.6	3 / 3	31.6
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.43	0.43	0.48	3 / 3	0.4533
Inorganic	Barium	mg/kg		2.9	2.9	3.4	3 / 3	3.2
Inorganic	Beryllium	mg/kg	0.058 / 0.062	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0079 / 0.015	ND	0.012	0.012	1 / 3	0.012
Inorganic	Calcium	mg/kg		8490	8490	10300	3 / 3	9213
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.046	0.046	0.073	3 / 3	0.059
Inorganic	Copper	mg/kg		1.4	1.4	1.7	3 / 3	1.567
Inorganic	Iron	mg/kg		21.9	21.9	87.2	3 / 3	43.87
Inorganic	Lead	mg/kg		0.032	0.032	0.092	3 / 3	0.05233
Inorganic	Magnesium	mg/kg		281	281	304	3 / 3	293.3
Inorganic	Manganese	mg/kg		25	25	32.4	3 / 3	28.43
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.094 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2410	2410	2450	3 / 3	2423
Inorganic	Selenium	mg/kg		0.68	0.68	0.81	3 / 3	0.74
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		884	884	925	3 / 3	908.7
Inorganic	Strontium	mg/kg		8.4	8.4	9.8	3 / 3	9.167
Inorganic	Thallium	mg/kg	0.013 / 0.026	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.069	0.069	0.16	3 / 3	0.1013
Inorganic	Zinc	mg/kg		22.7	22.7	24.5	3 / 3	23.77
Physical Properties	% Lipids	%		5	5	5.7	3 / 3	5.467
Physical Properties	% Moisture	%		78.4	78.4	79.5	3 / 3	78.87

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-28: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Emory River Mile 2.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 4.1	ND	ND	ND	0 / 3	0
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.34	0.34	0.37	3 / 3	0.3533
Inorganic	Barium	mg/kg		3	3	3.3	3 / 3	3.1
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.42	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0073 / 0.0078	ND	ND	ND	0 / 3	0
Inorganic	Calcium	mg/kg		10300	10300	11400	3 / 3	10767
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.041	0.041	0.045	3 / 3	0.04333
Inorganic	Copper	mg/kg		0.79	0.79	1.3	3 / 3	1.013
Inorganic	Iron	mg/kg		12.5	12.5	13.7	3 / 3	13.27
Inorganic	Lead	mg/kg		0.033	0.033	0.061	3 / 3	0.043
Inorganic	Magnesium	mg/kg		308	308	323	3 / 3	315.7
Inorganic	Manganese	mg/kg		31.1	31.1	33.6	3 / 3	32.67
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.093 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2400	2400	2530	3 / 3	2480
Inorganic	Selenium	mg/kg		0.54	0.54	0.56	3 / 3	0.5533
Inorganic	Silver	mg/kg	0.0028 / 0.0029	ND	ND	ND	0 / 3	0
Inorganic	Sodium	mg/kg		902	902	972	3 / 3	929
Inorganic	Strontium	mg/kg		8.3	8.3	9.8	3 / 3	9.267
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.071	0.071	0.082	3 / 3	0.07667
Inorganic	Zinc	mg/kg		22.6	22.6	24.2	3 / 3	23.47
Physical Properties	% Lipids	%		3.7	3.7	5.5	3 / 3	4.8
Physical Properties	% Moisture	%		78.4	78.4	78.7	3 / 3	78.57

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-29: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		595	595	1100	3 / 3	820.7
Inorganic	Antimony	mg/kg	0.019 / 0.021	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		1.1	1.1	1.4	3 / 3	1.267
Inorganic	Barium	mg/kg		4.6	4.6	7.1	3 / 3	6.2
Inorganic	Beryllium	mg/kg		0.046	0.046	0.059	3 / 3	0.05367
Inorganic	Boron	mg/kg		0.47	0.47	0.91	3 / 3	0.6667
Inorganic	Cadmium	mg/kg		0.082	0.082	0.086	3 / 3	0.08467
Inorganic	Calcium	mg/kg		200	200	464	3 / 3	335
Inorganic	Chromium	mg/kg		3.5	3.5	4.8	3 / 3	4.367
Inorganic	Cobalt	mg/kg		0.54	0.54	0.89	3 / 3	0.72
Inorganic	Copper	mg/kg		3.1	3.1	4.2	3 / 3	3.767
Inorganic	Iron	mg/kg		622	622	1120	3 / 3	856.7
Inorganic	Lead	mg/kg		0.49	0.49	0.91	3 / 3	0.7233
Inorganic	Magnesium	mg/kg		226	226	291	3 / 3	250
Inorganic	Manganese	mg/kg		30	30	61.3	3 / 3	48.67
Inorganic	Mercury	mg/kg		0.031	0.031	0.036	3 / 3	0.03333
Inorganic	Molybdenum	mg/kg		0.17	0.17	0.19	3 / 3	0.1833
Inorganic	Nickel	mg/kg		2.2	2.2	3.1	3 / 3	2.8
Inorganic	Potassium	mg/kg		2780	2780	2890	3 / 3	2823
Inorganic	Selenium	mg/kg		1.7	1.7	1.9	3 / 3	1.767
Inorganic	Silver	mg/kg		0.0091	0.0091	0.01	3 / 3	0.009467
Inorganic	Sodium	mg/kg		1120	1120	1230	3 / 3	1170
Inorganic	Strontium	mg/kg		1.7	1.7	1.9	3 / 3	1.8
Inorganic	Thallium	mg/kg	0.09 / 0.12	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		1.4	1.4	2.2	3 / 3	1.8
Inorganic	Zinc	mg/kg		27.6	27.6	28	3 / 3	27.77
Physical Properties	% Lipids	%		1.6	1.6	3.8	3 / 3	2.433
Physical Properties	% Moisture	%		79.1	79.1	80.8	3 / 3	80.13

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-30: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.8 / 3.8	ND	4.8	6.1	2 / 3	5.45
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.28	0.28	0.35	3 / 3	0.3167
Inorganic	Barium	mg/kg		2.4	2.4	3.3	3 / 3	2.767
Inorganic	Beryllium	mg/kg	0.056 / 0.062	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.39 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg	0.0071 / 0.0078	ND	0.023	0.023	1 / 3	0.023
Inorganic	Calcium	mg/kg		11000	11000	13500	3 / 3	12133
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.048	0.048	0.051	3 / 3	0.049
Inorganic	Copper	mg/kg		0.58	0.58	12.2	3 / 3	4.523
Inorganic	Iron	mg/kg		12.5	12.5	16.2	3 / 3	14.77
Inorganic	Lead	mg/kg		0.045	0.045	0.54	3 / 3	0.2103
Inorganic	Magnesium	mg/kg		342	342	364	3 / 3	351
Inorganic	Manganese	mg/kg		22.9	22.9	27	3 / 3	24.33
Inorganic	Mercury	mg/kg		0.013	0.013	0.016	3 / 3	0.01433
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.092 / 0.1	ND	2.4	2.4	1 / 3	2.4
Inorganic	Potassium	mg/kg		2730	2730	2840	3 / 3	2793
Inorganic	Selenium	mg/kg		0.4	0.4	0.78	3 / 3	0.5433
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	0.0031	0.0031	1 / 3	0.0031
Inorganic	Sodium	mg/kg		946	946	976	3 / 3	958.7
Inorganic	Strontium	mg/kg		7.9	7.9	9.6	3 / 3	8.5
Inorganic	Thallium	mg/kg	0.014 / 0.017	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.046	0.046	0.093	3 / 3	0.06667
Inorganic	Zinc	mg/kg		15.7	15.7	23.7	3 / 3	18.93
Physical Properties	% Lipids	%		1.6	1.6	5.8	3 / 3	4.3
Physical Properties	% Moisture	%		73.9	73.9	75.1	3 / 3	74.57

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-31: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		447	447	2130	6 / 6	1295
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	0.029	0.033	3 / 6	0.03133
Inorganic	Arsenic	mg/kg		0.68	0.68	1.6	6 / 6	1.235
Inorganic	Barium	mg/kg		3.7	3.7	18.1	6 / 6	10.47
Inorganic	Beryllium	mg/kg	0.027 / 0.307	ND	0.03	0.033	2 / 6	0.0315
Inorganic	Boron	mg/kg	0.37 / 2.1	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg		0.055	0.055	0.1	6 / 6	0.07767
Inorganic	Calcium	mg/kg		597	597	931	6 / 6	794.5
Inorganic	Chromium	mg/kg		0.67	0.67	5.8	6 / 6	3.302
Inorganic	Cobalt	mg/kg		0.39	0.39	1.8	6 / 6	1.087
Inorganic	Copper	mg/kg		4	4	8.2	6 / 6	5.683
Inorganic	Iron	mg/kg		523	523	2840	6 / 6	1673
Inorganic	Lead	mg/kg		0.59	0.59	4.2	6 / 6	2.352
Inorganic	Magnesium	mg/kg		248	248	545	6 / 6	388.8
Inorganic	Manganese	mg/kg		23	23	240	6 / 6	119.2
Inorganic	Mercury	mg/kg		0.015	0.015	0.22	6 / 6	0.09817
Inorganic	Molybdenum	mg/kg	0.032 / 0.18	ND	0.093	0.21	4 / 6	0.1308
Inorganic	Nickel	mg/kg		0.52	0.52	4.6	6 / 6	2.215
Inorganic	Potassium	mg/kg	650 / 3710	ND	2740	2800	3 / 6	2773
Inorganic	Selenium	mg/kg		1	1	1.5	6 / 6	1.317
Inorganic	Silver	mg/kg	0.0026 / 0.015	ND	0.018	0.022	3 / 6	0.01967
Inorganic	Sodium	mg/kg		1120	1120	1470	6 / 6	1285
Inorganic	Strontium	mg/kg		0.67	0.67	2.2	6 / 6	1.392
Inorganic	Thallium	mg/kg	0.037 / 0.076	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.74	0.74	3.7	6 / 6	2.2
Inorganic	Zinc	mg/kg		29.6	29.6	37.4	6 / 6	32.9
Physical Properties	% Lipids	%		1.1	1.1	3.8	6 / 6	2.483
Physical Properties	% Moisture	%		72.9	72.9	79.2	6 / 6	76.35

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-32: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		23.8	23.8	44.3	3 / 3	36.13
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.43	0.43	0.44	3 / 3	0.4367
Inorganic	Barium	mg/kg		2.5	2.5	3.4	3 / 3	2.9
Inorganic	Beryllium	mg/kg	0.028 / 0.03	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.009	0.009	0.011	3 / 3	0.01033
Inorganic	Calcium	mg/kg		8500	8500	14100	3 / 3	10690
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 3	0
Inorganic	Cobalt	mg/kg		0.073	0.073	0.083	3 / 3	0.078
Inorganic	Copper	mg/kg		1.3	1.3	2.2	3 / 3	1.7
Inorganic	Iron	mg/kg		39	39	57.3	3 / 3	49.63
Inorganic	Lead	mg/kg		0.06	0.06	0.1	3 / 3	0.083
Inorganic	Magnesium	mg/kg		296	296	311	3 / 3	302.3
Inorganic	Manganese	mg/kg		27.5	27.5	34.5	3 / 3	30.1
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	ND	ND	0 / 3	0
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg	0.093 / 0.1	ND	ND	ND	0 / 3	0
Inorganic	Potassium	mg/kg		2620	2620	2690	3 / 3	2657
Inorganic	Selenium	mg/kg		0.54	0.54	0.63	3 / 3	0.5933
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	0.0032	0.0032	1 / 3	0.0032
Inorganic	Sodium	mg/kg		1040	1040	1100	3 / 3	1070
Inorganic	Strontium	mg/kg		7.7	7.7	13	3 / 3	9.533
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.087	0.087	0.13	3 / 3	0.1123
Inorganic	Zinc	mg/kg		23.8	23.8	25.5	3 / 3	24.37
Physical Properties	% Lipids	%		4.9	4.9	6.3	3 / 3	5.533
Physical Properties	% Moisture	%		76.6	76.6	78	3 / 3	77.47

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-33: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.2	5.2	14.1	6 / 6	8.4
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.24	0.24	0.38	6 / 6	0.3133
Inorganic	Barium	mg/kg		2.8	2.8	3.8	6 / 6	3.233
Inorganic	Beryllium	mg/kg	0.028 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.39 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0072 / 0.0077	ND	0.011	0.011	1 / 6	0.011
Inorganic	Calcium	mg/kg		9940	9940	18200	6 / 6	13690
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.045	0.045	0.06	6 / 6	0.051
Inorganic	Copper	mg/kg		0.63	0.63	0.98	6 / 6	0.8217
Inorganic	Iron	mg/kg		16.2	16.2	29.4	6 / 6	21.67
Inorganic	Lead	mg/kg		0.049	0.049	0.089	6 / 6	0.06367
Inorganic	Magnesium	mg/kg		310	310	383	6 / 6	345.3
Inorganic	Manganese	mg/kg		28	28	36.1	6 / 6	33.12
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	0.011	0.018	3 / 6	0.014
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.092 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		2390	2390	2890	6 / 6	2633
Inorganic	Selenium	mg/kg		0.47	0.47	0.65	6 / 6	0.5267
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		893	893	1200	6 / 6	1044
Inorganic	Strontium	mg/kg		7.9	7.9	12.5	6 / 6	9.9
Inorganic	Thallium	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.063	0.063	0.09	6 / 6	0.07633
Inorganic	Zinc	mg/kg		16.2	16.2	23	6 / 6	20.15
Physical Properties	% Lipids	%		3.9	3.9	7.5	6 / 6	5.683
Physical Properties	% Moisture	%		75.3	75.3	77.9	6 / 6	76.75

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-34: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		721	721	3780	6 / 6	1684
Inorganic	Antimony	mg/kg		0.03	0.03	0.14	6 / 6	0.06933
Inorganic	Arsenic	mg/kg		1.1	1.1	5.2	6 / 6	2.633
Inorganic	Barium	mg/kg		8.6	8.6	48.4	6 / 6	21.3
Inorganic	Beryllium	mg/kg		0.07	0.07	0.5	6 / 6	0.205
Inorganic	Boron	mg/kg		0.55	0.55	3.3	6 / 6	1.445
Inorganic	Cadmium	mg/kg		0.07	0.07	0.099	6 / 6	0.09
Inorganic	Calcium	mg/kg		371	371	1000	6 / 6	543
Inorganic	Chromium	mg/kg		1.3	1.3	4.9	6 / 6	2.4
Inorganic	Cobalt	mg/kg		0.64	0.64	2.7	6 / 6	1.368
Inorganic	Copper	mg/kg		6.2	6.2	11.8	6 / 6	7.983
Inorganic	Iron	mg/kg		778	778	3810	6 / 6	1742
Inorganic	Lead	mg/kg		0.79	0.79	3.9	6 / 6	1.777
Inorganic	Magnesium	mg/kg		250	250	523	6 / 6	324.3
Inorganic	Manganese	mg/kg		54	54	140	6 / 6	93.43
Inorganic	Mercury	mg/kg		0.032	0.032	0.078	6 / 6	0.06417
Inorganic	Molybdenum	mg/kg		0.1	0.1	0.25	6 / 6	0.155
Inorganic	Nickel	mg/kg		1.1	1.1	5.4	6 / 6	2.667
Inorganic	Potassium	mg/kg	647 / 3360	ND	2430	2670	4 / 6	2568
Inorganic	Selenium	mg/kg		1.5	1.5	2.2	6 / 6	1.767
Inorganic	Silver	mg/kg		0.0056	0.0056	0.036	6 / 6	0.01758
Inorganic	Sodium	mg/kg		1100	1100	1260	6 / 6	1180
Inorganic	Strontium	mg/kg		3.5	3.5	26.6	6 / 6	10.87
Inorganic	Thallium	mg/kg	0.012 / 0.097	ND	0.15	0.21	2 / 6	0.18
Inorganic	Vanadium	mg/kg		1.7	1.7	9.7	6 / 6	4.4
Inorganic	Zinc	mg/kg		24.3	24.3	44.6	6 / 6	30.92
Physical Properties	% Lipids	%		1.6	1.6	2.8	6 / 6	2.267
Physical Properties	% Moisture	%		71.7	71.7	81.4	6 / 6	77.53

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-35: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		132	132	147	3 / 3	139.7
Inorganic	Antimony	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 3	0
Inorganic	Arsenic	mg/kg		0.59	0.59	0.63	3 / 3	0.6067
Inorganic	Barium	mg/kg		3.7	3.7	4.2	3 / 3	3.967
Inorganic	Beryllium	mg/kg	0.027 / 0.029	ND	ND	ND	0 / 3	0
Inorganic	Boron	mg/kg	0.37 / 0.41	ND	ND	ND	0 / 3	0
Inorganic	Cadmium	mg/kg		0.011	0.011	0.013	3 / 3	0.012
Inorganic	Calcium	mg/kg		8500	8500	9500	3 / 3	8897
Inorganic	Chromium	mg/kg		0.25	0.25	0.28	3 / 3	0.2667
Inorganic	Cobalt	mg/kg		0.15	0.15	0.17	3 / 3	0.1567
Inorganic	Copper	mg/kg		1.6	1.6	2.1	3 / 3	1.8
Inorganic	Iron	mg/kg		135	135	151	3 / 3	144
Inorganic	Lead	mg/kg		0.15	0.15	0.19	3 / 3	0.17
Inorganic	Magnesium	mg/kg		283	283	297	3 / 3	290.7
Inorganic	Manganese	mg/kg		29.3	29.3	33.8	3 / 3	31.13
Inorganic	Mercury	mg/kg	0.01 / 0.011	ND	0.012	0.012	1 / 3	0.012
Inorganic	Molybdenum	mg/kg	0.032 / 0.035	ND	ND	ND	0 / 3	0
Inorganic	Nickel	mg/kg		0.23	0.23	0.32	3 / 3	0.2667
Inorganic	Potassium	mg/kg		2470	2470	2520	3 / 3	2500
Inorganic	Selenium	mg/kg		0.7	0.7	0.72	3 / 3	0.71
Inorganic	Silver	mg/kg		0.0031	0.0031	0.0035	3 / 3	0.0033
Inorganic	Sodium	mg/kg		953	953	1020	3 / 3	985.3
Inorganic	Strontium	mg/kg		7.9	7.9	9.2	3 / 3	8.6
Inorganic	Thallium	mg/kg	0.0243 / 0.0267	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.4	0.4	0.44	3 / 3	0.4233
Inorganic	Zinc	mg/kg		23.6	23.6	23.9	3 / 3	23.77
Physical Properties	% Lipids	%		5.1	5.1	6.7	3 / 3	5.967
Physical Properties	% Moisture	%		78	78	78.5	3 / 3	78.2

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-36: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		7.3	7.3	48.3	6 / 6	16.75
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.42	6 / 6	0.2517
Inorganic	Barium	mg/kg		2.1	2.1	3.4	6 / 6	2.933
Inorganic	Beryllium	mg/kg	0.027 / 0.0589	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.39 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0071 / 0.0152	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		9830	9830	14800	6 / 6	12305
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.036	0.036	0.058	6 / 6	0.04717
Inorganic	Copper	mg/kg		0.69	0.69	2.1	6 / 6	1.053
Inorganic	Iron	mg/kg		20.6	20.6	57	6 / 6	33.63
Inorganic	Lead	mg/kg		0.051	0.051	0.15	6 / 6	0.07733
Inorganic	Magnesium	mg/kg		310	310	360	6 / 6	343.2
Inorganic	Manganese	mg/kg		17.2	17.2	32.6	6 / 6	23.27
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	0.012	0.014	4 / 6	0.01325
Inorganic	Molybdenum	mg/kg	0.033 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.091 / 0.099	ND	0.17	0.17	1 / 6	0.17
Inorganic	Potassium	mg/kg		2290	2290	2840	6 / 6	2508
Inorganic	Selenium	mg/kg		0.4	0.4	0.59	6 / 6	0.4983
Inorganic	Silver	mg/kg	0.0027 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		844	844	1010	6 / 6	902
Inorganic	Strontium	mg/kg		6.1	6.1	11.2	6 / 6	8.167
Inorganic	Thallium	mg/kg	0.013 / 0.0276	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.054	0.054	0.16	6 / 6	0.09433
Inorganic	Zinc	mg/kg		14.5	14.5	24	6 / 6	17.58
Physical Properties	% Lipids	%		3.8	3.8	6.2	6 / 6	4.983
Physical Properties	% Moisture	%		75.7	75.7	78	6 / 6	76.55

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-37: TVA SAP Sampling, Fall 2010 - Gizzard Shad Gut and Gut Content at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		2720	2720	3230	6 / 6	2917
Inorganic	Antimony	mg/kg		0.095	0.095	0.1	6 / 6	0.099
Inorganic	Arsenic	mg/kg		4.5	4.5	4.9	6 / 6	4.683
Inorganic	Barium	mg/kg		34.5	34.5	37.5	6 / 6	36.33
Inorganic	Beryllium	mg/kg		0.27	0.27	0.32	6 / 6	0.2917
Inorganic	Boron	mg/kg		2.2	2.2	2.5	6 / 6	2.333
Inorganic	Cadmium	mg/kg		0.095	0.095	0.16	6 / 6	0.1265
Inorganic	Calcium	mg/kg		743	743	908	6 / 6	810.7
Inorganic	Chromium	mg/kg		4.1	4.1	4.7	6 / 6	4.4
Inorganic	Cobalt	mg/kg		2	2	2.3	6 / 6	2.183
Inorganic	Copper	mg/kg		9	9	11.9	6 / 6	10.53
Inorganic	Iron	mg/kg		2260	2260	3610	6 / 6	2927
Inorganic	Lead	mg/kg		3.3	3.3	3.6	6 / 6	3.433
Inorganic	Magnesium	mg/kg		431	431	471	6 / 6	449.2
Inorganic	Manganese	mg/kg		177	177	270	6 / 6	223
Inorganic	Mercury	mg/kg		0.12	0.12	0.2	6 / 6	0.1617
Inorganic	Molybdenum	mg/kg		0.2	0.2	0.28	6 / 6	0.2167
Inorganic	Nickel	mg/kg		4.2	4.2	4.4	6 / 6	4.3
Inorganic	Potassium	mg/kg		2100	2100	2430	6 / 6	2252
Inorganic	Selenium	mg/kg		1.6	1.6	2	6 / 6	1.833
Inorganic	Silver	mg/kg		0.024	0.024	0.046	6 / 6	0.03217
Inorganic	Sodium	mg/kg		865	865	1290	6 / 6	1085
Inorganic	Strontium	mg/kg		14.4	14.4	18.2	6 / 6	16.67
Inorganic	Thallium	mg/kg	0.14 / 0.18	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		6.4	6.4	7.3	6 / 6	6.85
Inorganic	Zinc	mg/kg		27.6	27.6	36.7	6 / 6	32.18
Physical Properties	% Lipids	%		1	1	3.5	6 / 6	1.783
Physical Properties	% Moisture	%		70.7	70.7	75.4	6 / 6	73.85

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-38: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		359	359	661	3 / 3	515.7
Inorganic	Antimony	mg/kg		0.014	0.014	0.023	3 / 3	0.019
Inorganic	Arsenic	mg/kg		0.79	0.79	1.1	3 / 3	0.9633
Inorganic	Barium	mg/kg		6.8	6.8	9.3	3 / 3	8.4
Inorganic	Beryllium	mg/kg		0.035	0.035	0.058	3 / 3	0.04767
Inorganic	Boron	mg/kg	0.38 / 0.39	ND	0.43	0.51	2 / 3	0.47
Inorganic	Cadmium	mg/kg		0.01	0.01	0.016	3 / 3	0.01333
Inorganic	Calcium	mg/kg		6990	6990	10300	3 / 3	8683
Inorganic	Chromium	mg/kg		0.6	0.6	1	3 / 3	0.8233
Inorganic	Cobalt	mg/kg		0.28	0.28	0.44	3 / 3	0.3767
Inorganic	Copper	mg/kg		2.3	2.3	3.2	3 / 3	2.8
Inorganic	Iron	mg/kg		251	251	300	3 / 3	281.7
Inorganic	Lead	mg/kg		0.39	0.39	0.69	3 / 3	0.5733
Inorganic	Magnesium	mg/kg		322	322	344	3 / 3	333
Inorganic	Manganese	mg/kg		52.1	52.1	70.9	3 / 3	61.57
Inorganic	Mercury	mg/kg		0.019	0.019	0.032	3 / 3	0.027
Inorganic	Molybdenum	mg/kg	0.032 / 0.033	ND	0.035	0.039	2 / 3	0.037
Inorganic	Nickel	mg/kg		0.5	0.5	2.7	3 / 3	1.363
Inorganic	Potassium	mg/kg		2290	2290	2410	3 / 3	2370
Inorganic	Selenium	mg/kg		0.69	0.69	0.74	3 / 3	0.7233
Inorganic	Silver	mg/kg		0.0033	0.0033	0.0083	3 / 3	0.005233
Inorganic	Sodium	mg/kg		937	937	968	3 / 3	955.3
Inorganic	Strontium	mg/kg		8.8	8.8	10.1	3 / 3	9.6
Inorganic	Thallium	mg/kg	0.028 / 0.034	ND	ND	ND	0 / 3	0
Inorganic	Vanadium	mg/kg		0.85	0.85	1.5	3 / 3	1.217
Inorganic	Zinc	mg/kg		25.3	25.3	28.4	3 / 3	26.73
Physical Properties	% Lipids	%		3.4	3.4	3.5	3 / 3	3.467
Physical Properties	% Moisture	%		78.3	78.3	78.5	3 / 3	78.4

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-39: TVA SAP Sampling, Fall 2010 - Gizzard Shad Whole Body (Minus Gut) at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg		5.9	5.9	29.7	6 / 6	14.62
Inorganic	Antimony	mg/kg	0.014 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.24	0.24	0.41	6 / 6	0.3283
Inorganic	Barium	mg/kg		2.8	2.8	3.7	6 / 6	3.117
Inorganic	Beryllium	mg/kg	0.0571 / 0.062	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.4 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0079 / 0.0158	ND	0.011	0.011	1 / 6	0.011
Inorganic	Calcium	mg/kg		8690	8690	11600	6 / 6	9640
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.04	0.04	0.059	6 / 6	0.04833
Inorganic	Copper	mg/kg		0.61	0.61	1.9	6 / 6	1.215
Inorganic	Iron	mg/kg		16.7	16.7	27.3	6 / 6	21.67
Inorganic	Lead	mg/kg		0.043	0.043	0.088	6 / 6	0.05767
Inorganic	Magnesium	mg/kg		279	279	331	6 / 6	301.3
Inorganic	Manganese	mg/kg		22.4	22.4	41.1	6 / 6	31.6
Inorganic	Mercury	mg/kg	0.011 / 0.012	ND	0.012	0.012	2 / 6	0.012
Inorganic	Molybdenum	mg/kg	0.034 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.093 / 0.1	ND	0.12	0.17	3 / 6	0.1467
Inorganic	Potassium	mg/kg		1990	1990	2590	6 / 6	2238
Inorganic	Selenium	mg/kg		0.45	0.45	0.63	6 / 6	0.5467
Inorganic	Silver	mg/kg	0.0028 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		828	828	982	6 / 6	879
Inorganic	Strontium	mg/kg		6.8	6.8	10.1	6 / 6	8.233
Inorganic	Thallium	mg/kg	0.013 / 0.02	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg		0.061	0.061	0.11	6 / 6	0.07783
Inorganic	Zinc	mg/kg		17	17	30.2	6 / 6	23.2
Physical Properties	% Lipids	%		3.7	3.7	5.8	6 / 6	4.567
Physical Properties	% Moisture	%		76.2	76.2	79.3	6 / 6	77.6

Notes:

Composite sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-40: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Little Emory River Mile 2.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.689 / 4.037	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01324 / 0.0147	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.01497	0.01497	0.03536	6 / 6	0.02594
Inorganic	Barium	mg/kg	0.04123 / 0.04488	ND	0.0118	0.04598	2 / 6	0.02889
Inorganic	Beryllium	mg/kg	0.02821 / 0.02926	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.388 / 0.418	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00694 / 0.00766	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		93.7	93.7	879.8	6 / 6	329.9
Inorganic	Chromium	mg/kg	0.1172 / 0.1283	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01302 / 0.01428	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.0388	0.0388	0.3762	6 / 6	0.188
Inorganic	Iron	mg/kg	11.11 / 12.19	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02604 / 0.02898	ND	0.01944	0.01944	1 / 6	0.01944
Inorganic	Magnesium	mg/kg		263.8	263.8	306	6 / 6	285
Inorganic	Manganese	mg/kg	0.1562 / 0.163	ND	0.03876	0.08987	3 / 6	0.05944
Inorganic	Mercury	mg/kg		0.01842	0.01842	0.07161	6 / 6	0.03681
Inorganic	Molybdenum	mg/kg	0.03255 / 0.03553	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08897 / 0.09384	ND	0.04554	0.5852	2 / 6	0.3154
Inorganic	Potassium	mg/kg		4113	4113	4410	6 / 6	4219
Inorganic	Selenium	mg/kg		0.09945	0.09945	0.4462	6 / 6	0.1676
Inorganic	Silver	mg/kg	0.0026 / 0.00293	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		345	345	362.4	6 / 6	350.7
Inorganic	Strontium	mg/kg	0.04123 / 0.04199	ND	0.00955	0.1387	5 / 6	0.05291
Inorganic	Thallium	mg/kg	0.0128 / 0.01387	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04123 / 0.04598	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		1.68	1.68	11.14	6 / 6	4.432
Physical Properties	% Lipids	%		0.29	0.29	2.1	6 / 6	0.7517
Physical Properties	% Moisture	%		77.9	77.9	80.6	6 / 6	79.13

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-41: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.5 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.072	0.072	0.21	6 / 6	0.1473
Inorganic	Barium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.36 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0066 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		110	110	665	6 / 6	267.3
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.18	0.18	0.36	6 / 6	0.2717
Inorganic	Iron	mg/kg	10.5 / 12.3	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.024 / 0.028	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		302	302	322	6 / 6	311.2
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	ND	ND	0 / 6	0
Inorganic	Mercury	mg/kg		0.12	0.12	0.19	6 / 6	0.1467
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.085 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3590	3590	3980	6 / 6	3777
Inorganic	Selenium	mg/kg		0.35	0.35	0.66	6 / 6	0.45
Inorganic	Silver	mg/kg	0.0025 / 0.0029	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		306	306	365	6 / 6	338.8
Inorganic	Strontium	mg/kg		0.042	0.042	0.46	6 / 6	0.163
Inorganic	Thallium	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.3	7.3	14.9	6 / 6	11.03
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.061	0.061	0.061	1 / 1	0.061
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-41: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.35	0.35	0.86	7 / 7	0.56
Physical Properties	% Moisture	%		78.1	78.1	80.3	7 / 7	78.89
Radionuclides	Actinium-228	pCi/g	0.09787 / 0.09787	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.08615 / 0.08615	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.0562 / 0.0562	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02116 / 0.02116	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.03103 / 0.03103	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03472 / 0.03472	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04796 / 0.04796	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.407	3.407	3.407	1 / 1	3.407
Radionuclides	Radium-226	pCi/g		0.09743	0.09743	0.09743	1 / 1	0.09743
Radionuclides	Radium-228	pCi/g	0.09787 / 0.09787	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02365 / 0.02365	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.08246 / 0.08246	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.08116 / 0.08116	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.06987 / 0.06987	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.6727 / 0.6727	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.04275 / 0.04275	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.05295 / 0.05295	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.07899 / 0.07899	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-41: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.148 / 0.191	ND	0.195	0.208	2 / 6	0.2015
Speciation	Arsenite	mg/kg	0.0005 / 0.0008	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.148 / 0.191	ND	0.195	0.208	2 / 6	0.2015

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-42: TVA SAP Sampling, Fall 2010 - Largemouth Bass Carcass at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.3	0.3	0.55	6 / 6	0.415
Inorganic	Barium	mg/kg		0.56	0.56	1.4	6 / 6	0.9267
Inorganic	Beryllium	mg/kg	0.053 / 0.062	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.37 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0068 / 0.0078	ND	0.018	0.018	1 / 6	0.018
Inorganic	Calcium	mg/kg		14000	14000	35600	6 / 6	23017
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg		0.014	0.014	0.027	6 / 6	0.01717
Inorganic	Copper	mg/kg		0.35	0.35	14.6	6 / 6	3.763
Inorganic	Iron	mg/kg	10.7 / 12.5	ND	11.1	14.5	4 / 6	12.35
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	0.04	0.042	2 / 6	0.041
Inorganic	Magnesium	mg/kg		395	395	733	6 / 6	557.7
Inorganic	Manganese	mg/kg		1.9	1.9	8.1	6 / 6	3.617
Inorganic	Mercury	mg/kg		0.024	0.024	0.15	6 / 6	0.0615
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.087 / 0.1	ND	0.15	0.35	3 / 6	0.2567
Inorganic	Potassium	mg/kg		2240	2240	2520	6 / 6	2380
Inorganic	Selenium	mg/kg		0.6	0.6	0.78	6 / 6	0.6933
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		1270	1270	1580	6 / 6	1428
Inorganic	Strontium	mg/kg		10.8	10.8	30	6 / 6	19.23
Inorganic	Thallium	mg/kg	0.012 / 0.02	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.041 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		17.8	17.8	23.1	6 / 6	20.8
Physical Properties	% Lipids	%		0.32	0.32	9.8	6 / 6	6.737
Physical Properties	% Moisture	%		66.4	66.4	67.8	6 / 6	66.98

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-43: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 4.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.21	0.21	0.41	6 / 6	0.2983
Inorganic	Barium	mg/kg	0.042 / 0.047	ND	0.055	0.26	4 / 6	0.1213
Inorganic	Beryllium	mg/kg	0.054 / 0.061	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		654	654	6660	6 / 6	2064
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.28	0.28	4.2	6 / 6	1.688
Inorganic	Iron	mg/kg	10.9 / 12.3	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	0.039	0.041	2 / 6	0.04
Inorganic	Magnesium	mg/kg		273	273	393	6 / 6	311
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	0.18	0.95	5 / 6	0.414
Inorganic	Mercury	mg/kg		0.041	0.041	0.28	6 / 6	0.1075
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.1	ND	0.32	0.32	1 / 6	0.32
Inorganic	Potassium	mg/kg		3720	3720	3920	6 / 6	3827
Inorganic	Selenium	mg/kg		0.46	0.46	0.76	6 / 6	0.62
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		385	385	461	6 / 6	421.7
Inorganic	Strontium	mg/kg		0.51	0.51	5.1	6 / 6	1.633
Inorganic	Thallium	mg/kg	0.013 / 0.016	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		7.9	7.9	15.4	6 / 6	11
Physical Properties	% Lipids	%		2.1	2.1	3.9	6 / 6	2.95
Physical Properties	% Moisture	%		76.7	76.7	77.9	6 / 6	77.35

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-44: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 3.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4	ND	ND	ND	0 / 7	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 7	0
Inorganic	Arsenic	mg/kg		0.16	0.16	0.3	7 / 7	0.2086
Inorganic	Barium	mg/kg	0.042 / 0.046	ND	ND	ND	0 / 7	0
Inorganic	Beryllium	mg/kg	0.027 / 0.03	ND	ND	ND	0 / 7	0
Inorganic	Boron	mg/kg	0.38 / 0.42	ND	ND	ND	0 / 7	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0077	ND	ND	ND	0 / 7	0
Inorganic	Calcium	mg/kg		149	149	396	7 / 7	242
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 7	0
Inorganic	Cobalt	mg/kg	0.013 / 0.014	ND	0.016	0.016	1 / 7	0.016
Inorganic	Copper	mg/kg		0.27	0.27	0.71	7 / 7	0.4143
Inorganic	Iron	mg/kg	10.9 / 12.2	ND	ND	ND	0 / 7	0
Inorganic	Lead	mg/kg	0.025 / 0.028	ND	0.03	0.03	1 / 7	0.03
Inorganic	Magnesium	mg/kg		291	291	322	7 / 7	310.4
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	0.16	0.21	4 / 7	0.1825
Inorganic	Mercury	mg/kg		0.047	0.047	0.14	7 / 7	0.09843
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 7	0
Inorganic	Nickel	mg/kg	0.088 / 0.099	ND	0.13	0.13	1 / 7	0.13
Inorganic	Potassium	mg/kg		3730	3730	4420	7 / 7	4179
Inorganic	Selenium	mg/kg		0.7	0.7	0.85	7 / 7	0.7614
Inorganic	Silver	mg/kg	0.0026 / 0.0029	ND	ND	ND	0 / 7	0
Inorganic	Sodium	mg/kg		378	378	458	7 / 7	403.9
Inorganic	Strontium	mg/kg		0.066	0.066	0.3	7 / 7	0.1523
Inorganic	Thallium	mg/kg	0.012 / 0.019	ND	ND	ND	0 / 7	0
Inorganic	Vanadium	mg/kg	0.041 / 0.046	ND	ND	ND	0 / 7	0
Inorganic	Zinc	mg/kg		7.7	7.7	15.6	7 / 7	11.39
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.0686	0.0686	0.0686	1 / 1	0.0686
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-44: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.42	0.42	1.6	8 / 8	0.9575
Physical Properties	% Moisture	%		76.3	76.3	79.8	8 / 8	78.33
Radionuclides	Actinium-228	pCi/g	0.1067 / 0.1067	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.08344 / 0.08344	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.05278 / 0.05278	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02957 / 0.02957	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02913 / 0.02913	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.04468 / 0.04468	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04993 / 0.04993	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.57	3.57	3.57	1 / 1	3.57
Radionuclides	Radium-226	pCi/g		0.06154	0.06154	0.06154	1 / 1	0.06154
Radionuclides	Radium-228	pCi/g	0.1067 / 0.1067	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02781 / 0.02781	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.09724 / 0.09724	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.08234 / 0.08234	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.07096 / 0.07096	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.8366 / 0.8366	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.09658 / 0.09658	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.09373 / 0.09373	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.0876 / 0.0876	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-44: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 3.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 7	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.14 / 0.189	ND	0.153	0.271	5 / 7	0.213
Speciation	Arsenite	mg/kg	0.0006 / 0.002	ND	ND	ND	0 / 7	0
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 7	0
Speciation	Organic Arsenic	mg/kg	0.14 / 0.189	ND	0.153	0.271	5 / 7	0.213

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-45: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 0.9

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.5 / 4.1	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.14	0.14	0.38	6 / 6	0.3017
Inorganic	Barium	mg/kg	0.04 / 0.047	ND	0.056	0.056	1 / 6	0.056
Inorganic	Beryllium	mg/kg	0.026 / 0.03	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.36 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0067 / 0.0078	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		193	193	941	6 / 6	416.8
Inorganic	Chromium	mg/kg	0.11 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.012 / 0.014	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.3	0.3	0.44	6 / 6	0.3633
Inorganic	Iron	mg/kg	10.6 / 12.4	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.024 / 0.029	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		256	256	353	6 / 6	322
Inorganic	Manganese	mg/kg	0.15 / 0.17	ND	0.18	0.29	4 / 6	0.2125
Inorganic	Mercury	mg/kg		0.069	0.069	0.28	6 / 6	0.1092
Inorganic	Molybdenum	mg/kg	0.031 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.086 / 0.1	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3120	3120	4290	6 / 6	3887
Inorganic	Selenium	mg/kg		0.66	0.66	0.81	6 / 6	0.7483
Inorganic	Silver	mg/kg	0.0025 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		385	385	628	6 / 6	451.7
Inorganic	Strontium	mg/kg		0.12	0.12	0.75	6 / 6	0.3
Inorganic	Thallium	mg/kg	0.013 / 0.016	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		9.1	9.1	20.3	6 / 6	12.75
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.105	0.105	0.105	1 / 1	0.105
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-45: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.2	0.2	2.5	7 / 7	1.471
Physical Properties	% Moisture	%		76.3	76.3	83.1	7 / 7	78.67
Radionuclides	Actinium-228	pCi/g	0.1215 / 0.1215	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.07096 / 0.07096	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.06066 / 0.06066	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02869 / 0.02869	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02847 / 0.02847	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.04358 / 0.04358	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.05256 / 0.05256	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		2.978	2.978	2.978	1 / 1	2.978
Radionuclides	Radium-226	pCi/g		0.1426	0.1426	0.1426	1 / 1	0.1426
Radionuclides	Radium-228	pCi/g	0.1215 / 0.1215	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.02387 / 0.02387	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.1524 / 0.1524	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.083 / 0.083	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.1053 / 0.1053	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.668 / 0.668	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.04249 / 0.04249	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.08366 / 0.08366	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.04249 / 0.04249	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-45: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Emory River Mile 0.9 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.149 / 0.163	ND	0.228	0.435	5 / 6	0.302
Speciation	Arsenite	mg/kg	0.0006 / 0.002	ND	0.005	0.005	1 / 6	0.005
Speciation	Inorganic Arsenic	mg/kg	0.003 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.149 / 0.163	ND	0.228	0.435	5 / 6	0.302

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-46: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 8.0

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.659 / 3.924	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01327 / 0.01418	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1742	0.1742	0.3375	6 / 6	0.265
Inorganic	Barium	mg/kg	0.0428 / 0.04578	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.02782 / 0.02925	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3852 / 0.4142	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00706 / 0.00743	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		167.1	167.1	841	6 / 6	466
Inorganic	Chromium	mg/kg	0.1156 / 0.1243	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01284 / 0.01373	ND	0.01355	0.01355	1 / 6	0.01355
Inorganic	Copper	mg/kg		0.2365	0.2365	0.6104	6 / 6	0.3639
Inorganic	Iron	mg/kg	11.04 / 11.82	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02568 / 0.02834	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		275.2	275.2	330.8	6 / 6	301.8
Inorganic	Manganese	mg/kg	0.1562 / 0.1679	ND	0.171	0.2354	3 / 6	0.1962
Inorganic	Mercury	mg/kg		0.05886	0.05886	0.1462	6 / 6	0.1001
Inorganic	Molybdenum	mg/kg	0.0321 / 0.03488	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08988 / 0.09675	ND	ND	ND	0 / 6	0
Inorganic	Potassium	mg/kg		3548	3548	4140	6 / 6	3905
Inorganic	Selenium	mg/kg		0.412	0.412	0.7704	6 / 6	0.5474
Inorganic	Silver	mg/kg	0.00257 / 0.00293	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		398.9	398.9	500.8	6 / 6	456
Inorganic	Strontium	mg/kg		0.07595	0.07595	0.5992	6 / 6	0.316
Inorganic	Thallium	mg/kg	0.01263 / 0.01352	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.0428 / 0.04578	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		8.686	8.686	19.13	6 / 6	12.39
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.0813	0.0813	0.0813	1 / 1	0.0813
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-46: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.4	0.4	1.7	7 / 7	1.086
Physical Properties	% Moisture	%		77.5	77.5	79.4	7 / 7	78.33
Radionuclides	Actinium-228	pCi/g	0.0908 / 0.0908	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.0555 / 0.0555	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.04795 / 0.04795	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.02575 / 0.02575	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02464 / 0.02464	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03286 / 0.03286	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04573 / 0.04573	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.219	3.219	3.219	1 / 1	3.219
Radionuclides	Radium-226	pCi/g	0.04618 / 0.04618	ND	ND	ND	0 / 1	0
Radionuclides	Radium-228	pCi/g	0.0908 / 0.0908	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.0222 / 0.0222	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.0979 / 0.0979	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g		0.08414	0.08414	0.08414	1 / 1	0.08414
Radionuclides	Thorium-232	pCi/g	0.0444 / 0.0444	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.4795 / 0.4795	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.08036 / 0.08036	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.07792 / 0.07792	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.06305 / 0.06305	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-46: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 8.0 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.167 / 0.187	ND	0.233	0.298	4 / 6	0.2773
Speciation	Arsenite	mg/kg	0.0006 / 0.0009	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.167 / 0.187	ND	0.233	0.298	4 / 6	0.2773

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-47: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 3.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.6 / 4.2	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.17	0.17	0.33	6 / 6	0.27
Inorganic	Barium	mg/kg	0.042 / 0.048	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.027 / 0.031	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.38 / 0.43	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.0069 / 0.0079	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		234	234	742	6 / 6	400.5
Inorganic	Chromium	mg/kg	0.12 / 0.13	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.013 / 0.015	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.27	0.27	9.7	6 / 6	1.895
Inorganic	Iron	mg/kg	10.9 / 12.5	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.025 / 0.029	ND	0.21	0.21	1 / 6	0.21
Inorganic	Magnesium	mg/kg		288	288	328	6 / 6	307.2
Inorganic	Manganese	mg/kg	0.15 / 0.18	ND	0.19	0.19	1 / 6	0.19
Inorganic	Mercury	mg/kg		0.039	0.039	0.14	6 / 6	0.08233
Inorganic	Molybdenum	mg/kg	0.032 / 0.036	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.089 / 0.099	ND	0.16	0.51	2 / 6	0.335
Inorganic	Potassium	mg/kg		3390	3390	3680	6 / 6	3580
Inorganic	Selenium	mg/kg		0.62	0.62	0.91	6 / 6	0.73
Inorganic	Silver	mg/kg	0.0026 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		351	351	427	6 / 6	394.8
Inorganic	Strontium	mg/kg		0.12	0.12	0.57	6 / 6	0.2767
Inorganic	Thallium	mg/kg	0.013 / 0.017	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.042 / 0.047	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		6.5	6.5	17.8	6 / 6	10.77
Physical Properties	% Lipids	%		0.44	0.44	3.6	6 / 6	1.56
Physical Properties	% Moisture	%		75.6	75.6	78.8	6 / 6	77.38

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-48: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 1.5

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Inorganic	Aluminum	mg/kg	3.532 / 4.066	ND	ND	ND	0 / 6	0
Inorganic	Antimony	mg/kg	0.01274 / 0.01477	ND	ND	ND	0 / 6	0
Inorganic	Arsenic	mg/kg		0.1023	0.1023	0.2782	6 / 6	0.1862
Inorganic	Barium	mg/kg	0.04053 / 0.04708	ND	ND	ND	0 / 6	0
Inorganic	Beryllium	mg/kg	0.05211 / 0.06206	ND	ND	ND	0 / 6	0
Inorganic	Boron	mg/kg	0.3667 / 0.428	ND	ND	ND	0 / 6	0
Inorganic	Cadmium	mg/kg	0.00676 / 0.0077	ND	ND	ND	0 / 6	0
Inorganic	Calcium	mg/kg		203.7	203.7	754.6	6 / 6	442.3
Inorganic	Chromium	mg/kg	0.1119 / 0.1284	ND	ND	ND	0 / 6	0
Inorganic	Cobalt	mg/kg	0.01235 / 0.01434	ND	ND	ND	0 / 6	0
Inorganic	Copper	mg/kg		0.2496	0.2496	0.5778	6 / 6	0.3785
Inorganic	Iron	mg/kg	10.65 / 12.28	ND	ND	ND	0 / 6	0
Inorganic	Lead	mg/kg	0.02472 / 0.02782	ND	ND	ND	0 / 6	0
Inorganic	Magnesium	mg/kg		261.1	261.1	324.2	6 / 6	299.2
Inorganic	Manganese	mg/kg	0.1505 / 0.1733	ND	0.1751	0.2702	5 / 6	0.2037
Inorganic	Mercury	mg/kg		0.06177	0.06177	0.1776	6 / 6	0.09404
Inorganic	Molybdenum	mg/kg	0.03088 / 0.03638	ND	ND	ND	0 / 6	0
Inorganic	Nickel	mg/kg	0.08652 / 0.09844	ND	0.1094	0.1094	1 / 6	0.1094
Inorganic	Potassium	mg/kg		3493	3493	3959	6 / 6	3788
Inorganic	Selenium	mg/kg		0.5184	0.5184	1.004	6 / 6	0.773
Inorganic	Silver	mg/kg	0.00251 / 0.003	ND	ND	ND	0 / 6	0
Inorganic	Sodium	mg/kg		360.5	360.5	484.4	6 / 6	420.3
Inorganic	Strontium	mg/kg		0.1391	0.1391	0.5983	6 / 6	0.3214
Inorganic	Thallium	mg/kg	0.01216 / 0.01412	ND	ND	ND	0 / 6	0
Inorganic	Vanadium	mg/kg	0.04053 / 0.04708	ND	ND	ND	0 / 6	0
Inorganic	Zinc	mg/kg		9.581	9.581	16.17	6 / 6	12.31
Organic-PCBs	PCB-1016	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1221	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1232	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1242	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1248	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1254	mg/kg	0.05 / 0.05	ND	ND	ND	0 / 1	0
Organic-PCBs	PCB-1260	mg/kg		0.0669	0.0669	0.0669	1 / 1	0.0669
Organic-Pesticides / Herbicides	4,4'-DDD	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDE	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	4,4'-DDT	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Aldrin	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	alpha-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-48: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Organic-Pesticides / Herbicides	alpha-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	beta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	delta-BHC	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Dieldrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan I	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan II	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endosulfan Sulfate	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin aldehyde	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Endrin Ketone	mg/kg	0.005 / 0.005	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-BHC (Lindane)	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	gamma-Chlordane	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Heptachlor Epoxide	mg/kg	0.0025 / 0.0025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Methoxychlor	mg/kg	0.025 / 0.025	ND	ND	ND	0 / 1	0
Organic-Pesticides / Herbicides	Toxaphene	mg/kg	0.075 / 0.075	ND	ND	ND	0 / 1	0
Physical Properties	% Lipids	%		0.49	0.49	1.2	7 / 7	0.78
Physical Properties	% Moisture	%		78.6	78.6	80.8	7 / 7	79.59
Radionuclides	Actinium-228	pCi/g	0.08259 / 0.08259	ND	ND	ND	0 / 1	0
Radionuclides	Americium-241	pCi/g	0.08963 / 0.08963	ND	ND	ND	0 / 1	0
Radionuclides	Bismuth-214	pCi/g	0.04264 / 0.04264	ND	ND	ND	0 / 1	0
Radionuclides	Cesium-137	pCi/g	0.01998 / 0.01998	ND	ND	ND	0 / 1	0
Radionuclides	Cobalt-60	pCi/g	0.02132 / 0.02132	ND	ND	ND	0 / 1	0
Radionuclides	Lead-212	pCi/g	0.03126 / 0.03126	ND	ND	ND	0 / 1	0
Radionuclides	Lead-214	pCi/g	0.04037 / 0.04037	ND	ND	ND	0 / 1	0
Radionuclides	Potassium-40	pCi/g		3.188	3.188	3.188	1 / 1	3.188
Radionuclides	Radium-226	pCi/g		0.05444	0.05444	0.05444	1 / 1	0.05444
Radionuclides	Radium-228	pCi/g	0.08259 / 0.08259	ND	ND	ND	0 / 1	0
Radionuclides	Thallium-208	pCi/g	0.01846 / 0.01846	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-228	pCi/g	0.09853 / 0.09853	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-230	pCi/g	0.0828 / 0.0828	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-232	pCi/g	0.08259 / 0.08259	ND	ND	ND	0 / 1	0
Radionuclides	Thorium-234	pCi/g	0.7473 / 0.7473	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-234	pCi/g	0.07721 / 0.07721	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-235	pCi/g	0.05175 / 0.05175	ND	ND	ND	0 / 1	0
Radionuclides	Uranium-238	pCi/g	0.06686 / 0.06686	ND	ND	ND	0 / 1	0

Notes:

Grab sample results are presented in wet weight.

For definitions, see the Acronyms section.

Table L-48: TVA SAP Sampling, Fall 2010 - Largemouth Bass Fillet at Clinch River Mile 1.5 (Continued)

Group	Analyte	Units (wet wt. basis)	Detection Limit Range	Minimum	Minimum Detected Result	Maximum Detected Result	Number of Detections / Samples	Mean of Detections
Speciation	Arsenate	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Arsenic (from speciation lab)	mg/kg	0.149 / 0.166	ND	0.195	0.299	3 / 6	0.2627
Speciation	Arsenite	mg/kg	0.0009 / 0.001	ND	ND	ND	0 / 6	0
Speciation	Inorganic Arsenic	mg/kg	0.004 / 0.005	ND	ND	ND	0 / 6	0
Speciation	Organic Arsenic	mg/kg	0.149 / 0.166	ND	0.195	0.299	3 / 6	0.2627

Notes:

Radionuclide and Organic results are from composite samples. Other results are from grab samples. Results are presented in wet weight.

For definitions, see the Acronyms section.