SITE: G.E.
BREAK: 1.2
OTHER:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

May 29, 2003

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MEMORANDUM

SUBJECT: Coosa River PCB TMDL Environmental Sampling Report

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Enclosed is a copy of the final Coosa River PCB TMDL Environmental Sampling Report. If you have questions or comments on the report, please contact one of Project Leaders (Dorn x8683, McGrath x8776) or myself at 355-8616. Thanks for your support on this project.

Enclosure

cc: Jim Kutzman (Waste Division)

COOSA RIVER PCB TMDL
ENVIRONMENTAL SAMPLING REPORT

APRIL 2003

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INTRODUCTION

The U.S. Environmental Protection Agency's Region 4 Science and Ecosystem Support Division (SESD) was tasked by the Region 4 Water Management Division (WMD) to provide data for use in the derivation of a polychlorinated biphenyl (PCB) total maximum daily load (TMDL) for the segment of the Coosa River from Rome, GA to Lake Logan Martin near Pell City, AL.

BACKGROUND

The primary source of the PCBs is reported to be the General Electric (GE) Plant in Rome, Georgia. GE opened the plant in 1953. PCBs were used in the manufacture of transformers from 1953 until April 1977. In 1969, the GE plant was connected to the City of Rome's sewer system. Prior to that time, untreated wastewater was discharged to receiving waters. Originally, there were four storm water discharge drainage ditches referred to as Outfalls 001-004 in the NPDES permit. Outfalls 001 and 003 drained into Horseleg Creek and then into the Coosa River. Outfalls 002 and 004 drained into Little Dry Creek and then into the Oostanaula River.

In January 2002, at the request of GE-Rome, Blasland, Bouck and Lee, Inc. (BBL) conducted an environmental investigation in the Coosa River and selected tributaries to the Coosa River from Rome, GA to the Georgia-Alabama state line. BBL collected sediment samples from transects at eight stations in the Coosa River. Three points were sampled along each transect using a vibratory coring device similar to the one used by EPA (see Summary). Figure 1 in Appendix B shows the locations of the BBL samples and concentrations relative to depth. Table 1 in Appendix A contains the analytical results of the BBL sampling effort. None of the BBL samples contained PCBs equal to or greater than the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) action level of 1 mg/kg. Sample R6-SD3 at a depth of 36"-60" contained 0.75 mg/kg and 0.82 mg/kg of Aroclors 1242 and 1260, respectively. During the EPA study in November 2002, sample SCR4 was collected in the same vicinity as R6-SD3 at 36"-60". SCR4 also contained levels of aroclors 1242 and 1260. The aroclors were detected in each of the three intervals sampled, but at lower levels than detected by BBL. It should be noted, the reporting limits of the analyses completed by BBL were approximately one order of magnitude higher than the reporting limits for the analyses completed on samples collected and analyzed by EPA.

During the weeks of November 8, 2002 and December 9, 2002, sediment and fish tissue samples were collected from the Coosa River system beginning in Rome, Georgia and concluding in Lake Logan Martin near Pell City, Alabama. Sampling began in the Coosa River downstream of the confluence of the Oostanaula and Etowah Rivers and concluded at Logan Martin Lake north of the I-20 overpass. A list of sediment sample stations and their locations are provided in Table 2 of Appendix A. The sediment sample stations are also depicted graphically in Figure 2 of Appendix B.

SUMMARY

Sediment Sampling

Sediment samples were collected from fourteen locations. Depositional areas of fine grained sediments were targeted for sampling. The samples were collected with a vibratory corer, which consisted of a 10' long, 3" diameter steel barrel with a tapered nose cone and retention device. A disposable plastic liner was threaded into the barrel at each sample location. The barrel was attached to a weighted, vibratory unit and advanced to refusal through a combination of vibration and direct weight. Upon retrieval the plastic liner was removed from the barrel. The core was measured and divided into intervals. In general, each core was sampled at the following intervals: 1) 0"-6"; 2) 6"-18"; 3) 18"-30"; 4) 30"-42"; 5) 42"-54". The actual sample interval was based on the total length of the core. The sediment samples were analyzed for PCB aroclors, percent volatile solids and particle size distribution. The intervals for each sample and the results for the PCB and percent volatile solids analyses are listed in Table 3 in Appendix A. Particle size distribution results for each station are depicted graphically in Figures 3-16 in Appendix B.

Fish Sampling

Since a TMDL will likely be based on human exposure to PCB's via fish consumption, legal-sized fish of species normally caught for human consumption were targeted for collection. At each station efforts were made to collect five trophic level 4 fish (top predator) and five trophic level 3 fish (bottom feeder). The trophic level 4 fish (the larger, primarily piscivorus, secondary carnivores) included largemouth bass and spotted bass. Trophic level 3 fish included catfish (channel and blue) and smallmouth buffalo.

Fish were sampled at seven sites along the Coosa River. Sample sites were selected based on sites previously sampled by the states. Three sites were within the state of Georgia from Rome to the Alabama state line. The most upstream sample collection site was above the Mayo's Bar Lock and Dam structure and just downstream of the confluence of the Etowah River and the Oostanaula River, near River Mile 2. The second site was below Hwy 100. The third site was at Brushy Branch/Fosters Bend near the State line. There were two sample sites within Lake Weiss. The first was in the vicinity of Poole's Ferry near Channel Marker 101. The second was upstream of the dam forebay in the vicinity of Bay Springs Marina. Two sample sites were located on the Coosa River downstream of the Weiss Dam Powerhouse. The first was in upper Neely Henry Reservoir in the vicinity of Croft Ferry near Murrycross, AL. The second was in the vicinity of the Interstate 20 bridge in Logan Martin Reservoir. Fish were collected from areas conducive to electrofishing, as close as possible to the target sample locations. Actual coordinates were obtained at sample locations using boat mounted or hand held GPS. Figures 17-23 show the reach where the fish samples were collected as well as the average aroclor 1260 concentration by trophic levels.

Immediately after collection, fish were chilled on wet ice. Fish were filleted in the field and the fillets frozen within 48 hours of collection. Processing followed general guidance described in US EPA (2000a) and the standard operating procedures specific to SESD (EPA

2002 Section 12). The two skin-on fillets including belly flap from each fish, homogenized together, constituted one fish sample. For scaleless fish (catfish), the sample consisted of skinned fillets. Fillets were homogenized using a high speed blender and dry ice. Five fish tissue samples were analyzed for PCB aroclors from each station for each trophic level using method 8082 according to US EPA 2000b. Fish tissue was analyzed for PCB aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260. Three fish tissue samples from each station for each trophic level were analyzed for PCB congeners. PCB congener analyses were completed on the three largest fish from each trophic level.

Sediment Results

Relative to the CERCLA action level of 1 mg/kg, low to very low levels of PCB aroclors 1242, 1254, and 1260 were detected in varying combinations in the sediment samples collected throughout the study area. Figure 24 in Appendix B shows the total aroclor concentrations in the sediment samples at each sample interval from the most upstream to the most downstream location. There are no obvious contaminant patterns based on the results as depicted in Figure 24. The greatest individual aroclor concentration was detected in sample SLW1E at 610 µg/kg (Aroclor 1254) which is the equivalent of 0.610 mg/kg. This sample was collected from the eastern end of Lake Weiss from a depth range of 48"- 60". The 0" - 6" sediment interval is considered the most critical from an ecological standpoint because this is generally regarded as the zone of biological activity where macroinvertebrate organisms reside which are involved in foodweb dynamics. The greatest individual aroclor concentration detected in the 0" - 6" range was in sample SNHUA at 220 µg/kg (Aroclor 1260), which is the equivalent of 0.220mg/kg. This is well below the CERCLA action level of 1 mg/kg.

Fish Results

Both the state of Alabama and the state of Georgia have issued fish consumption advisories for segments of the Coosa River. The results of the fish tissue analyses from this study support the need for fish advisories based on the action levels used by both states. It should be noted that Georgia has a more conservative protocol for issuing fish advisories than does Alabama. Alabama issues fish advisories based on FDA action levels. The FDA action level for no consumption is 2 ppm for total PCB's while fish tissue with concentration of 1.0 to 1.99 ppm have limited consumption. A limited consumption advisory states that women of reproductive age and children less than 15 years old should avoid eating certain fish from the listed sites. Other people should limit their consumption of the particular species to one meal per month. Fish tissue concentrations less than 1.0 ppm are not limited in consumption. The action levels for Georgia are tiered to limit fish consumption to 1 meal per month for total PCB concentrations of 0.3-0.99 ppm, 1 meal per week for concentrations of 0.1-0.29 ppm and no restriction for fish with concentrations less than 0.1 ppm. The Georgia action level for total restriction for eating fish is 1.0 p.m. The Georgia and Alabama action levels are higher than the EPA screening value for recreational fishers which is 0.02 ppm.

Aroclor 1260 was detected in all fish samples. Aroclor 1016, 1221, 1232, 1242, 1248, and 1254 were generally not detected in the fish tissue. Concentrations of aroclor 1260 were found to be highest in the trophic level 3 fish. The mean tissue concentration for aroclor 1260

for all trophic level 3 fish was calculated to be 0.51 mg/kg. The highest concentration of aroclor 1260 was detected in a smallmouth buffalo from station CR1 at a concentration of 3.8 mg/kg. In comparison all trophic level 4 fish tissue concentrations for aroclor 1260 were lower resulting in a mean concentration of 0.2981 mg/kg. The PCB concentrations in fish tissue from this study are generally consistent with the guidance Georgia and Alabama recommends for eating fish from the sampled segments of the Coosa River.

The smallmouth buffalo samples collected at station CR1 had an average aroclor 1260 concentration of 1.1 mg/kg which supports the "do not eat" restriction that the State of Georgia has assessed based on their latest sampling. Spotted bass collected from CR1 had an average aroclor concentration of 0.54 mg/kg which would limit the consumption to 1 meal per month based on the Georgia guidelines. This is more restrictive than the current Georgia recommendation at this site which is 1 meal per week. The Georgia guidelines for site CR2 which is down stream of CR1 limit smallmouth buffalo consumption to 1 meal per month and largemouth bass to 1 meal per week. Smallmouth buffalo collected from site CR2 for this study had an average aroclor 1260 concentration of 0.71 mg/kg and largemouth bass had an average aroclor 1260 concentration of 0.11 mg/kg. The fish tissue concentrations for site CR2 from this study supports the consumption limits recommended by the Georgia guidelines for smallmouth buffalo and largemouth bass. Smallmouth buffalo collected for this study at site CR3 which is down stream of CR2 near the Alabama/Georgia state line had an average aroclor 1260 concentration of 0.14 mg/kg while the largemouth bass collected at this site had an average aroclor concentration of 0.41 mg/kg. Georgia recommends limiting the consumption of smallmouth buffalo at this site to 1 meal per month and largemouth bass to 1 meal per week. The results from this study indicated a consumption limit of 1 meal per week for smallmouth buffalo and 1 meal per month for largemouth bass based on the Georgia fish consumption guidelines.

Smallmouth buffalo collected for this study at site LW1 which is down stream of site CR3 and located in the upper portion of Lake Weiss had an average aroclor 1260 concentration of 0.36 mg/kg while largemouth bass collected at this site had an average aroclor 1260 concentration of 0.28 mg/kg. Alabama has no current advisory for these fish species at this site. However, catfish over one pound are listed as limited consumption for this site. Based on the Georgia guidelines smallmouth buffalo would be limited to 1 meal per month and largemouth bass would be limited to 1 meal per week. Smallmouth buffalo collected for this study at site LW2 which is down stream of site LW1 and located in the lower portion of Lake Weiss had an average aroclor 1260 concentration of 0.74 mg/kg while largemouth bass collected at this site had an average aroclor 1260 concentration of 0.19 mg/kg. One blue catfish over one pound was collected at this site and had an aroclor 1260 concentration of 0.23 mg/kg. The state advisory for catfish over one pound are listed as limited consumption for this site. The results of this analysis does not support the current advisory of limited consumption for catfish over one pound. Alabama has no current advisory for smallmouth buffalo or largemouth bass at this site. Based on the Georgia guidelines smallmouth buffalo would be limited to 1 meal per month and largemouth bass would be limited to 1 meal per week. Largemouth bass collected at site UNH for this study which is located down stream of Lake Weiss had an average aroclor 1260 concentration of 0.17 mg/kg while spotted bass had an average aroclor 1260 concentration of 0.54mg/kg. Smallmouth buffalo collected from this site

had an average aroclor 1260 concentration of 0.53 mg/kg. Alabama has no current fish advisory for this segment of the Coosa River. Based on the Georgia guidelines smallmouth buffalo and spotted bass would be limited to 1 meal per month while largemouth bass would be limited to 1 meal per week. Catfish collected at site LM which is the most down stream sampling point had an average aroclor 1260 concentration of 0.19 mg/kg while largemouth bass collected from this site had an average aroclor 1260 concentration of 0.16 mg/kg. The aroclor 1260 concentration in the largest catfish collected from this site which was over one pound was 0.19 mg/kg. Based on the Georgia guidelines catfish would be limited to 1 meal per week while largemouth bass would also be limited to 1 meal per week. The results of the aroclor analysis the, action levels used by Georgia and Alabama to issue fish advisories as well as the EPA screening levels (EPA 2000a) for carcinogens and noncarcinogens in fish tissue are displayed in Tables 4-10 in Appendix A . The results of this study indicated all fish samples collected exceeded the EPA screening level of 0.02 ppm for total PCB's for carcinogens as related to the recreational fishers. Figure 25 in Appendix B shows aroclor 1260 concentrations in all smallmouth buffalo regardless of size exceeded the EPA screening level of 0.02 ppm. Figure 26 in Appendix B shows aroclor 1260 tissue concentrations in all largemouth bass regardless of size exceeded the EPA screening value for of 0.02 ppm for total PCB's.

DISCUSSION OF RESULTS

Sediment

Low levels of several PCB aroclors were detected in the sediment samples. Figure 2 (Appendix B) shows the total aroclor concentrations at each station for each depth sampled. The individual aroclor values for each station were summed to arrive at the total aroclor value. Non-detects were assumed to have a value of zero. This assumption was made because the intent of Figure 2 is to show an overall snapshot of the PCB levels detected during this study. PCBs were detected in the 0" - 6" interval, at the concentrations listed, in the following samples:

	Sample	Individual Aroclor Concentration (µg/kg)			Total Aroclor Concentration (µg/kg)
		1242	1254	1260	
Upstream ↓ Downstream	SCR4A	5.5J	--	15J	20.5J
	SLW1A	3.6J	7.7J	--	11.3J
	SLW2A	--	11J	--	11J
	SNHUA	--	--	220	220
	SNH3A	--	17	--	17
	SLMA	--	5.4J		5.4J

-- - Analyte not detected at or above reporting limit.
J - Identification of analyte is acceptable; reported value is an estimate.

These levels are considered extremely low with the exception of SNHU (220 µg/kg). However, 220 µg/kg is a great deal less than the CERCLA action level of 1 mg/kg.

Sporadic detections of higher PCB levels were found in several samples at depths greater than 6 inches. Following is a list of those samples, their concentrations, and depths.

Upstream ↓ Downstream	Sample	Individual Aroclor Concentration (µg/kg)			Total Aroclor Concentration (µg/kg)	Depth from Sediment Surface
		1242	1254	1260		
	SCR5B	--	--	150J	150J	6" - 18"
	SLW1D	33J	--	72J	105J	36" - 48"
	SLW1E	--	610J	--	610	48" - 60"
	SLW2D	--	400J	--	400	36" - 48"
	SNHUB	--	--	220	220	6" - 18"
	SNH3C	--	160	--	160	18" - 30"
	SNH3D	35	110	70	215	30" - 42"
	SLMD	23	100	50	173	36" - 48"

-- - Analyte not detected at or above reporting limit.
J - Identification of analyte is acceptable; reported value is an estimate.

There is little risk of exposure to the macroinvertebrate organisms involved in foodweb dynamics or throphic level 3 fish at depths greater than 6" below the sediment surface. None of the deeper sediment intervals contained PCB levels greater than the CERCLA action level of 1 mg/kg.

None of the samples contained greater than 10 percent volatile solids. This indicates that the sample was composed primarily of sediment as opposed to detritus material. Clay and silt were the predominant fractions (>50 %) in the majority of the samples confirming that the goal of targeting fine sediment deposits was accomplished. No direct correlation can be made between sediment constitution and PCB presence/absence or quantity present with the data from this study.

Fish Tissue Results

The results of fish tissue analysis detected the presence of PCB aroclor 1260 in all fish samples. Specific PCB congener analysis also detected the presence of certain dioxin-like PCB's in all but one of the fish samples. The results from the congener analyses were used to calculate Toxicity Equivalency Quotients (TEQ's) based on Toxicity Equivalency Factors (TEF's) as outlined by the World Health Organization (WHO). The TEF's indicate a specific congener's toxicity relative to 2,3,7,8-tetrachlorodibenzo-p-dioxin (2378-TCDD). The TEQ's for samples

submitted for congener analyses were calculated three different ways in order to identify variability based on values reported as the reporting limit. Because of the high reporting limits the first and most conservative approach was to calculate the TEQ's using one-half of the reporting limit value for a specific congener. The second approach was to calculate the TEQ's using one-tenth of the reporting limit for a specific congener. The third and least conservative approach was to calculate the TEQ's using only the detected values. U.S. EPA Superfund Risk Assessment has established human health risk screening levels for PCB congeners. The results of this study revealed that all fish tissue samples collected from the reach sampled exceeded the first tier screening value of 2.1×10^{-8} used to document the magnitude of risk at a site, and the primary causes of that risk. The TEQ calculations using the detected values only, the calculations using one-half the MQL, and the calculations using one-tenth of the MQL for each site are provided in Tables 11-31 in Appendix A. Table 32 in Appendix A shows the physical measurements of the fish collected as well as the locational data where the samples were collected.

There was no significant difference in fish tissue PCB aroclor 1260 concentrations among the sampled sites when plotted by station, the variability in the size of fish and species collected limited comparison from site to site. Figure 27 in Appendix B shows the mean concentrations of aroclor 1260 for all trophic level 4 fish species by station. The overlapping standard deviations indicate no distinction can be made by station for aroclor 1260. The mean concentrations of aroclor 1260 for all trophic level 3 fish species are presented in Figure 28 in Appendix B. The overlapping standard deviations indicate no distinction can be made by station for aroclor 1260. No concentration gradient can be established for Aroclor 1260 due to the overlapping standard deviations as illustrated by Figures 27 and 28. The geometric mean for aroclor 1260 concentrations in trophic level 3 fish was calculated to be 0.3283 mg/kg. The geometric mean for aroclor 1260 concentrations in trophic level 4 fish was calculated to be 0.2325mg/kg.

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APPENDIX A
TABLES

Table 2
Sample Stations and Locations

Sample I.D.	Station Location	Lat/Long
SCR1	Coosa River, Station 1	34 15.422/85 10.941
SCR3	Coosa River, Station 3	34 12.000/85 15.324
SCR4	Coosa River, Station 4	34 14.982/85 20.546
SCR5	Coosa River, Station 5	34 14.919/85 21.875
SCR6	Coosa River, Station 6	34 11.984/85 23.830
SLW1	Lake Weiss, Station 1	34 12.045/85 30.420
SLW2	Lake Weiss, Station 2	34 10.664/85 35.421
SLW3	Lake Weiss, Station 3	34 10.933/85 44.575
SLW4	Lake Weiss, Station 4	34 08.764/85 47.404
SNH1	Neely Henry Lake, Station 1	34 00.497/85 54.449
SNH2	Neely Henry Lake, Station 2	33 57.793/85 58.453
SNH3	Neely Henry Lake, Station 3	33 48.534/86 03.833
SNHU	Neely Henry Lake, Station 4	34 05.540/85 51.873
SLM	Logan Martin Lake	33 36.548/86 11.964

Table 3
EPA PCB Results
Sediment Samples
Coosa River TMDL
Nov/Dec 2002

		SCR1A	SCR1B	SCR3A	SCR3B	SCR3C
		11/19/2002	11/19/2002	11/19/2002	11/19/2002	11/19/2002
		19:45	9:45	16:20	16:20	16:20
		0" - 6"	6" - 18"	0" - 6"	6" - 18"	18" - 28"
PCB-1242 (Aroclor 1242)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1254 (Aroclor 1254)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1221 (Aroclor 1221)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1232 (Aroclor 1232)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1248 (Aroclor 1248)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1260 (Aroclor 1260)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
PCB-1016 (Aroclor 1016)	µg/kg	5.3 UJ	5.6 UJ	6.2 U	6.2 U	6.4 U
Moisture	%	22	26	21	20	21
Volatile Solids	%	0.45	2.7	0.76	0.69	0.48

		SCR4A	SCR4B	SCR4C	SCR5A	SCR5B
		11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002
		11:10	11:10	11:10	12:45	12:45
		0" - 6"	6" - 18"	18" - 24"	0" - 6"	6" - 18"
PCB-1242 (Aroclor 1242)	µg/kg	5.5 J	3.4 J	12 J	14 UJ	36 UJ
PCB-1254 (Aroclor 1254)	µg/kg	15 UJ	20 UJ	33 UJ	19 UJ	150 UJ
PCB-1221 (Aroclor 1221)	µg/kg	9.3 UJ	7.4 UJ	7.6 UJ	14 UJ	36 UJ
PCB-1232 (Aroclor 1232)	µg/kg	9.3 UJ	7.4 UJ	7.6 UJ	14 UJ	36 UJ
PCB-1248 (Aroclor 1248)	µg/kg	9.3 UJ	7.4 UJ	7.6 UJ	14 UJ	36 UJ
PCB-1260 (Aroclor 1260)	µg/kg	15 J	20 J	33 J	19 J	150 J
PCB-1016 (Aroclor 1016)	µg/kg	9.3 UJ	7.4 UJ	7.6 UJ	14 UJ	36 UJ
Moisture	%	44	40	39	44	29
Volatile Solids	%	5.1	6.2	6.2	5	3.8

		SCR5C	SCR6A	SCR6B	SCR6C	SCR6D
		11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002
		12:45	14:25	14:25	14:25	14:25
		18" - 24"	0" - 6"	6" - 18"	18" - 30"	30" - 36"
PCB-1242 (Aroclor 1242)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1254 (Aroclor 1254)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1221 (Aroclor 1221)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1232 (Aroclor 1232)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1248 (Aroclor 1248)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1260 (Aroclor 1260)	µg/kg	5.3 J	8.0 U	7.2 UJ	6.7 U	7.1 UJ
PCB-1016 (Aroclor 1016)	µg/kg	6.6 UJ	8.0 U	7.2 UJ	6.7 U	7.1 UJ
Moisture	%	25	25	27	25	25
Volatile Solids	%	1.6	4.2	4.6	4.5	3.9

— Compound Detected.
U — Analyte not detected at or above reporting limit.
J — Estimated Value.
UJ — Analyte not detected at or above reporting limit. Reporting limit is an estimate.

Table 3 (cont)
EPA PCB Results
Sediment Samples
Coosa River TMDL
Nov/Dec 2002

		SLW1A	SLW1B	SLW1C	SLW1D	SLW1E
		11/21/2002	11/21/2002	11/21/2002	11/21/2002	11/21/2002
		10:30	10:30	10:30	10:30	10:30
		0" - 6"	6" - 24"	24" - 36"	36" - 48"	48" - 60"
PCB-1242 (Aroclor 1242)	µg/kg	3.6 J	10 J	13 J	35 J	210 UJ
PCB-1254 (Aroclor 1254)	µg/kg	7.7 J	28 UJ	27 UJ	72 UJ	610 J
PCB-1221 (Aroclor 1221)	µg/kg	8.0 UJ	10 UJ	13 UJ	33 UJ	210 UJ
PCB-1232 (Aroclor 1232)	µg/kg	8.0 UJ	10 UJ	13 UJ	33 UJ	210 UJ
PCB-1248 (Aroclor 1248)	µg/kg	8.0 UJ	10 UJ	13 UJ	33 UJ	210 UJ
PCB-1260 (Aroclor 1260)	µg/kg	7.7 UJ	28 J	27 J	72 J	610 UJ
PCB-1016 (Aroclor 1016)	µg/kg	8.0 UJ	10 UJ	13 UJ	33 UJ	210 UJ
Moisture	%	48	39	43	37	39
Volatile Solids	%	6.4	4.5	6	6.1	5.6

		SLW2A	SLW2B	SLW2C	SLW2D	SLW2E
		11/21/2002	11/21/2002	11/21/2002	11/21/2002	11/21/2002
		12:25	12:25	12:25	12:25	12:25
		0" - 6"	6" - 24"	24" - 36"	36' - 48"	48" - 60"
PCB-1242 (Aroclor 1242)	µg/kg	9.8 UJ	12 U	13 J	82 UJ	13 UJ
PCB-1254 (Aroclor 1254)	µg/kg	11 J	23 U	57 J	400 J	30 J
PCB-1221 (Aroclor 1221)	µg/kg	9.8 UJ	12 U	13 UJ	82 UJ	13 UJ
PCB-1232 (Aroclor 1232)	µg/kg	9.8 UJ	12 U	13 UJ	82 UJ	13 UJ
PCB-1248 (Aroclor 1248)	µg/kg	9.8 UJ	12 U	13 UJ	82 UJ	13 UJ
PCB-1260 (Aroclor 1260)	µg/kg	11 UJ	23	57 UJ	400 UJ	30 UJ
PCB-1016 (Aroclor 1016)	µg/kg	9.8 UJ	12 U	13 UJ	82 UJ	13 UJ
Moisture	%	53	48	48	45	32
Volatile Solids	%	7.4	7.1	6.9	6.2	5.6

		SLW3A	SLW3B	SLW4A	SLW4B	SLMA
		12/12/2002	12/12/2002	12/12/2002	12/12/2002	12/9/2002
		12:42	12:42	10:10	10:10	14:35
		0" - 6"	6" - 17"	0" - 6"	6" - 17"	0" - 6"
PCB-1242 (Aroclor 1242)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
PCB-1254 (Aroclor 1254)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	5.4 J
PCB-1221 (Aroclor 1221)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
PCB-1232 (Aroclor 1232)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
PCB-1248 (Aroclor 1248)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
PCB-1260 (Aroclor 1260)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
PCB-1016 (Aroclor 1016)	µg/kg	5.6 U	5.2 UJ	4.9 U	5.0 U	8.0 U
Moisture	%	26	22	17	19	49
Volatile Solids	%	3.2	2.6	1.7	1.7	7.5

— Compound Detected
U — Analyte not detected at or above reporting limit.
J — Estimated Value.
UJ — Analyte not detected at or above reporting limit. Reporting limit is an estimate.

Table 3 (cont)
EPA PCB Results
Sediment Samples
Coosa River TMDL
Nov/Dec 2002

		SLMB	SLMC	SLMD	SLME	SNH1A
		12/9/2002	12/9/2002	12/9/2002	12/9/2002	12/11/2002
		14:35	14:35	14:35	14:35	9:58
		6" - 24"	24" - 36"	36" - 48"	48" - 60"	0" - 6"
PCB-1242 (Aroclor 1242)	µg/kg	7.7 U	17 U	23	53	5.7 U
PCB-1254 (Aroclor 1254)	µg/kg	10	81	100	32 U	5.7 U
PCB-1221 (Aroclor 1221)	µg/kg	7.7 U	17 U	23 U	53 U	5.7 U
PCB-1232 (Aroclor 1232)	µg/kg	7.7 U	17 U	23 U	53 U	5.7 U
PCB-1248 (Aroclor 1248)	µg/kg	7.7 U	17 U	23 U	53 U	5.7 U
PCB-1260 (Aroclor 1260)	µg/kg	10 U	81 U	50	32	5.7 U
PCB-1016 (Aroclor 1016)	µg/kg	7.7 U	17 U	23 U	53 U	5.7 U
Moisture	%	46	41	39	40	29
Volatile Solids	%	6.6	6.2	6.6	6.4	3.9

		SNH1B	SNH1C	SNH2A	SNH2B	SNH2C
		12/11/2002	12/11/2002	12/10/2002	12/10/2002	12/10/2002
		9:58	9:58	14:42	14:42	14:42
		6"- 18"	18" - 30"	0"- 6"	6" - 18"	18" - 30"
PCB-1242 (Aroclor 1242)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1254 (Aroclor 1254)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1221 (Aroclor 1221)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1232 (Aroclor 1232)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1248 (Aroclor 1248)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1260 (Aroclor 1260)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
PCB-1016 (Aroclor 1016)	µg/kg	5.8 U	5.8 U	5.5 U	5.8 U	6.0 UJ
Moisture	%	30	30	28	31	31
Volatile Solids	%	4.5	4.5	3.6	5	5.5

		SNH2D	SNH3A	SNH3B	SNH3C	SNH3D
		12/10/2002	12/10/2002	12/10/2002	12/10/2002	12/10/2002
		14:42	10:55	10:55	10:55	10:55
		30" - 42"	0" - 6"	6" - 18"	18" - 30"	30" - 42"
PCB-1242 (Aroclor 1242)	µg/kg	5.7 U	8.1 U	14 U	44 U	35
PCB-1254 (Aroclor 1254)	µg/kg	5.7 U	17	40	160	110
PCB-1221 (Aroclor 1221)	µg/kg	5.7 U	8.1 U	14 U	44 U	35 U
PCB-1232 (Aroclor 1232)	µg/kg	5.7 U	8.1 U	14 U	44 U	35 U
PCB-1248 (Aroclor 1248)	µg/kg	5.7 U	8.1 U	14 U	44 U	35 U
PCB-1260 (Aroclor 1260)	µg/kg	5.7 U	17 U	40 U	160 U	70
PCB-1016 (Aroclor 1016)	µg/kg	5.7 U	8.1 U	14 U	44 U	35 U
Moisture	%	27	49	45	42	45
Volatile Solids	%	3.4	7.8	6.4	6.1	7.6

— Compound Detected
U — Analyte not detected at or above reporting limit.
J — Estimated Value.

Table 3 (cont)
EPA PCB Results
Sediment Samples
Coosa River TMDL
Nov/Dec 2002

		SNHUA 12/11/2002 13:50 0" - 6"	SNHUB 12/11/2002 13:50 6" - 18"
PCB-1242 (Aroclor 1242)	µg/kg	28 U	29 U
PCB-1254 (Aroclor 1254)	µg/kg	220 U	220 U
PCB-1221 (Aroclor 1221)	µg/kg	28 U	29 U
PCB-1232 (Aroclor 1232)	µg/kg	28 U	29 U
PCB-1248 (Aroclor 1248)	µg/kg	28 U	29 U
PCB-1260 (Aroclor 1260)	µg/kg	220	220
PCB-1016 (Aroclor 1016)	µg/kg	28 U	29 U
Moisture	%	41	43
Volatile Solids	%	8.9	9.5

— Compound Detected
U — Analyte not detected at or above reporting limit.

Table 4. Coosa River Fish Tissue PCB Arochlor Data for EPA Location CR1

PCB Boen	Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Alabama Fish Advisory Criteria: Limited Consumption (mg/kg)	Alabama Fish Advisory Criteria: Total Restriction (mg/kg)	Georgia Fish Advisory Criteria: 1 Meal/Week (mg/kg)	Georgia Fish Advisory Criteria: 1 Meal/Month (mg/kg)	Georgia Fish Advisory Criteria: Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	EPA Screening Cancer (mg/kg)	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SBF4 11/19/2002	CR1-SBF5 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB2 11/21/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002	CR1-SPB7 11/21/2002
PCB-1016 (Aroclor 10 5115 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0451	EPA-823-B-00-007 (2000)		0 16 U	0 016 U	0 03 U	0 089 U	0 055 U	0 035 U	0 31 U	0 1 U	0 03 U	0 016 U
PCB-1221 (Aroclor 12 5095 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016	Dose-Response variables		0 16 U	0 16 U	0 03 U	0 089 U	0 055 U	0 035 U	0 31 U	0 1 U	0 03 U	0 016 U
PCB-1232 (Aroclor 12 5100 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016	and Recommended SV		0 016 U	0 16 U	0 03 U	0 089 U	0 055 U	0 035 U	0 31 U	0 1 U	0 03 U	0 016 U
PCB-1242 (Aroclor 12 5085 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016	for Target Analytes-		0 16 U	0 016 U	0 033 J	0 089 U	0 058 J	0 036 J	0 31 U	0 1 J	0 034 J	0 016 U
PCB-1248 (Aroclor 12 5105 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016	Recreational Fishers		0 16 U	0 16 U	0 03 U	0 089 U	0 055 U	0 035 U	0 31 U	0.1 U	0 03 U	0 016 U
PCB-1254 (Aroclor 12 5090 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016			3 5 U	0 4 U	0 3 U	0.5 U	0 4 U	0 35 U	0 75 U	0 85 U	0 15 U	0 45 U
PCB-1260 (Aroclor 12 5110 MG/KG	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0 0016			3 8	0 43	0 33	0 54	0 41	0 38	0 77	0 88	0 17	0 5
Aroclor 1260	<1 0	1 0-1 99	2	0 1 0 29	0 3-0 99	>1 0		0 08	0 02	3 8	0 43	0 33	0 54	0 41	0 38	0 77	0 88	0 17	0 5
Total PCBs*										7.956	1 342	0 783	1.485	1.068	0 906	3 07	2 23	0.474	1.03

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences. J-Estimated value
N-Presumptive evidence of presence of material
NR-Not Reported
K-Actual value is known to be less than value given
L-Actual value is known to be greater than value given
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC indicates that data unusable Compound may or may not be present. Resampling and reanalysis is necessary for verification
C-Confirmed by GCMS
1.When no value is reported, see chlordane constituents
2.Constituents or metabolites of technical chlordane

Table 5. Coosa River Fish Tissue PCB Arochlor Data for EPA Location CR2

PCB Scan	Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Limited Consumption (mg/kg)	Total Restriction (mg/kg)	Georgia Fish Advisory: 1 Meal/Week (mg/kg)	1 Meal/Month (mg/kg)	Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	Screening Cancer (mg/kg)	CR2-CCF1 11/18/2002	CR2-LMB1 11/18/2002	CR2-LMB2 11/18/2002	CR2-LMB3 11/18/2002	CR2-LMB4 11/18/2002	CR2-LMB5 11/18/2002	CR2-SBF1 11/18/2002	CR2-SBF2 11/18/2002	CR2-SBF3 11/18/2002	CR2-SBF4 11/18/2002
PCB-1016 (Aroclor 10 5115 MG/KG							0 0451	EPA-823-B-00-007 (2000)		0 031 U	0 008 U	0 032 U	0 032 U	0 032 U	0 031 U	0 16 U	0 32 U	0 16 U	0 061 U
PCB-1221 (Aroclor 12 5095 MG/KG							0 0016	Dose-Response variables		0 031 U	0 008 U	0 032 U	0 032 U	0 032 U	0 031 U	0 16 U	0 32 U	0 16 U	0 061 U
PCB-1232 (Aroclor 12 5100 MG/KG							0 0016	and Recommended SV		0 031 U	0 008 U	0 032 U	0 032 U	0 032 U	0 031 U	0 16 U	0 32 U	0.16 U	0 061 U
PCB-1242 (Aroclor 12 5085 MG/KG							0 0016	for Target Analytes-		0 031 U	0 008 U	0 032 U	0 032 U	0 032 U	0 031 U	0 16 U	0 32 U	0 16 U	0 061 U
PCB-1248 (Aroclor 12 5105 MG/KG							0 0016	Recreational Fishers		0 031 U	0 008 U	0.032 U	0 032 U	0 032 U	0.031 U	0 16 U	0 32 U	0 16 U	0 061 U
PCB-1254 (Aroclor 12 5090 MG/KG							0 0016			0 19 U	0 061 U	0 16 U	0 13 U	0 091 U	0 12 U	0 75 U	1 4 U	0 46 U	0 23 U
PCB-1260 (Aroclor 12 5110 MG/KG							0 0016			0.19	0 061	0 16	0 13	0 091	0 12	0 75	1 4	0 46	0 23
Aroclor 1260	<1 0	1 0-1 99	2	0 1-0 29	0 3-0 99	>1 0		0 08	0 02	0 19	0 061	0 16	0 13	0 091	0 12	0 75	1 4	0 46	0 23
Total PCBs*										0 535	0 162	0 48	0 42	0 342	0 395	2 3	4 4	1.72	0 865

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected The number is the minimum quantitation limit
R-QC indicates that data unusable Compound may or may not be present Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents
2.Constituents or metabolites of technical chlordane

Table 6. Coosa River Fish Tissue PCB Arochlor Data for EPA Location CR3

		Alabama Fish Advisory Criteria			Georgia Fish Advisory				EPA											
PCB Basis		No Restriction (mg/kg)	Limited Consumption (mg/kg)	Total Restriction (mg/kg)	1 Meal/Week (mg/kg)	1 Meal/Month (mg/kg)	Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	Screening Non-Cancer (mg/kg)	Screening Cancer (mg/kg)	CR3-UMB1 11/20/2002	CR3-UMB2 11/20/2002	CR3-UMB3 11/20/2002	CR3-UMB4 11/20/2002	CR3-UMB5 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3-SBF4 12/09/2002	CR3-SBF5 12/09/2002
PCB-1016 (Aroclor 1016)	5115 MG/KG							0.0451	EPA-823-B-00-007 (2000)		0.16 U	0.16 U	0.16 U	0.032 U	0.033 U	0.032 U	0.033 U	0.032 U	0.033 U	0.033 U
PCB-1221 (Aroclor 1221)	5095 MG/KG							0.0016	Dose-Response variables		0.16 U	0.16 U	0.16 U	0.032 U	0.033 U	0.032 U	0.033 U	0.032 U	0.033 U	0.033 U
PCB-1232 (Aroclor 1232)	5100 MG/KG							0.0016	and Recommended SV		0.16 U	0.16 U	0.16 U	0.032 U	0.033 U	0.032 U	0.033 U	0.032 U	0.033 U	0.033 U
PCB-1242 (Aroclor 1242)	5085 MG/KG							0.0016	for Target Analytes-		0.16 U	0.16 U	0.16 U	0.032 U	0.033 U	0.032 U	0.033 U	0.032 U	0.033 U	0.033 U
PCB-1248 (Aroclor 1248)	5105 MG/KG							0.0016	Recreational Fishers		0.16 U	0.16 U	0.16 U	0.032 U	0.033 U	0.032 U	0.033 U	0.032 U	0.033 U	0.033 U
PCB-1254 (Aroclor 1254)	5090 MG/KG							0.0016			0.62 U	0.77 U	0.37 U	0.18 U	0.12 U	0.17 U	0.12 U	0.2 U	0.12 U	0.11 U
PCB-1260 (Aroclor 1260)	5110 MG/KG							0.0016			0.62	0.77	0.37	0.18	0.12	0.17	0.12	0.2	0.12	0.11
Aroclor 1260		<1.0	1.0-1.99	2	0.1-0.29	0.3-0.99	>1.0		0.08	0.02	0.62	0.77	0.37	0.18	0.12	0.17	0.12	0.2	0.12	0.11
Total PCBs*											2.04	2.34	1.54	0.52	0.405	0.5	0.405	0.58	0.405	0.385

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value,
N-Presumptive evidence of presence of material
NR-Not Reported
K-Actual value is known to be less than value given
L-Actual value is known to be greater than value given
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC indicates that data unusable Compound may or may not be present Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS
1.When no value is reported, see chlordane constituents
2.Constituents or metabolites of technical chlordane.

Table 7. Coosa River Fish Tissue PCB Arochlor Data for EPA Location Lake Weiss 1

PCB Been		Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Alabama Fish Advisory Criteria: Limited Consumption (mg/kg)	Alabama Fish Advisory Criteria: Total Restriction (mg/kg)	Georgia Fish Advisory: 1 Meal/Week (mg/kg)	Georgia Fish Advisory: 1 Meal/Month (mg/kg)	Georgia Fish Advisory: Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	EPA Screening Cancer (mg/kg)	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1LMB4 11/19/2002	LW1LMB5 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002	LW1SBF4 12/11/2002	LW1SBF5 12/11/2002
PCB-1016 (Arocior 1016)	5115 MG/KG							0 0451	EPA-823-B-00-007 (200		0 0016 U	0 0016 U	0 0016 U	0 016 U	0 016 U	0 0016 U	0 04 U	0 04 U	0 08 U	0 082 U
PCB-1221 (Arocior 1221)	5095 MG/KG							0 0016	Dose-Response variable		0 0016 U	0 0016 U	0 0016 U	0 016 U	0 016 U	0 0016 U	0 04 U	0 04 U	0 08 U	0 08 U
PCB-1232 (Arocior 1232)	5100 MG/KG							0 0016	and Recommended SV		0 0016 U	0 0016 U	0 0016 U	0 016 U	0 016 U	0 0016 U	0 04 U	0 04 U	0 08 U	0 082 U
PCB-1242 (Arocior 1242)	5085 MG/KG							0 0016	for Target Analytes-		0 0016 U	0 0016 U	0 0016 U	0 016 U	0 016 U	0 0016 U	0 04 U	0 04 U	0 08 U	0 082 U
PCB-1248 (Arocior 1248)	5105 MG/KG							0 0016	Recreational Fishers		0 0016 U	0 0016 U	0.0016 U	0 016 U	0 016 U	0 0016 U	0 04 U	0 04 U	0 08 U	0 082 U
PCB-1254 (Arocior 1254)	5090 MG/KG							0 0016			0 33 U	0 23 U	0 41 U	0 22 U	0 21 U	0 54 U	0 23 U	0 28 U	0 37 U	0 36 U
PCB-1260 (Arocior 1260)	5110 MG/KG							0 0016			0 33	0 23	0 41	0 22	0.21	0 54	0 23	0 28	0 37	0 36
Arocior 1260		<1 0	1 0-1 99	2	0 1-0 29	0 3-0 99	>1 0		0 06	0 02	0 33	0 23	0 41	0 22	0 21	0 54	0 23	0 28	0 37	0 36
Total PCBs*											0 668	0 466	0 826	0 52	0 5	1.088	0 86	0 76	1 14	1 126

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given
L-Actual value is known to be greater than value given
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC Indicates that data unusable Compound may or may not be present. Resampling and reanalysis is necessary for verification
C-Confirmed by GCMS
1 When no value is reported, see chlordane constituents
2 Constituents or metabolites of technical chlordane

Table 8. Coosa River Fish Tissue PCB Arochlor Data for EPA Location Lake Weiss 2

PCB Scan *		Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Limited Consumption (mg/kg)	Total Restriction (mg/kg)	Georgia Fish Advisory: 1 Meal/Week (mg/kg)	1 Meal/Month (mg/kg)	Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	Screening Cancer (mg/kg)	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-LMB4 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2-SBF4 12/10/2002	LW2-SPB1 ########
PCB-1016 (Aroclor 1016)	5115 MG/KG							0.0451	EPA-823-B-00-007 (2000)		0.082 U	0.083 U	0.041 U	0.041 U	0.032 U	0.33 U	0.0082 U	0.16 U	0.16 U	0.081 U
PCB-1221 (Aroclor 1221)	5095 MG/KG							0.0016	Dose-Response variables		0.082 U	0.083 U	0.041 U	0.041 U	0.032 U	0.33 U	0.0082 U	0.16 U	0.16 U	0.081 U
PCB-1232 (Aroclor 1232)	5100 MG/KG							0.0016	and Recommended SV		0.082 U	0.083 U	0.041 U	0.041 U	0.032 U	0.33 U	0.0082 U	0.16 U	0.16 U	0.081 U
PCB-1242 (Aroclor 1242)	5085 MG/KG							0.0016	for Target Analytes-		0.082 U	0.083 U	0.041 U	0.041 U	0.032 U	0.33 U	0.0082 U	0.16 U	0.16 U	0.081 U
PCB-1248 (Aroclor 1248)	5105 MG/KG							0.0016	Recreational Fishers		0.082 U	0.083 U	0.041 U	0.041 U	0.032 U	0.33 U	0.0082 U	0.16 U	0.16 U	0.081 U
PCB-1254 (Aroclor 1254)	5090 MG/KG							0.0016			0.23 U	0.28 U	0.17 U	0.18 U	0.14 U	1.4 U	0.06 U	0.71 U	0.79 U	0.31 U
PCB-1260 (Aroclor 1260)	5110 MG/KG							0.0016			0.23	0.28	0.17	0.18	0.14	1.4	0.06	0.71	0.79	0.31
Aroclor 1260		<1.0	1.0-1.99	2	0.1-0.29	0.3-0.99	>1.0		0.08	0.02	0.23	0.28	0.17	0.18	0.14	1.4	0.06	0.71	0.79	0.31
Total PCBs*											0.87	0.975	0.545	0.565	0.44	4.45	0.161	2.22	2.38	1.025

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC indicates that data unusable Compound may or may not be present. Resampling and reanalysis is necessary for verification
C-Confirmed by GCMS
1 When no value is reported, see chlordane constituents
2 Constituents or metabolites of technical chlordane

Table 9. Coosa River Fish Tissue PCB Arochlor Data for EPA Location Upper Neely-Henry

PCB Scan		Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Limited Consumption (mg/kg)	Total Restriction (mg/kg)	Georgia Fish Advisory: 1 Meal/Week (mg/kg)	1 Meal/Month (mg/kg)	Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	Screening Cancer (mg/kg)	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHLMB3 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 ########	UNHSBF3 12/10/2002	UNHSBF4 12/10/2002	UNHSBF5 12/10/2002	UNHSPB1 11/20/2002	UNHSPB2 11/20/2002
PCB-1016 (Aroclor 1016)	5115 MG/KG							0 0451	EPA-823-B-00-007 (2000)		0 032 U	0 033 U	0 04 U	0 16 U	0 16 U	0 081 U	0 083 U	0 079 U	0 16 U	0 04 U
PCB-1221 (Aroclor 1221)	5095 MG/KG							0 0016	Dose-Response variables		0 032 U	0 033 U	0 04 U	0 16 U	0 16 U	0 081 U	0 083 U	0 079 U	0 16 U	0 04 U
PCB-1232 (Aroclor 1232)	5100 MG/KG							0 0016	and Recommended SV		0 032 U	0 033 U	0 04 U	0 16 U	0 16 U	0 081 U	0 083 U	0 079 U	0 16 U	0 04 U
PCB-1242 (Aroclor 1242)	5085 MG/KG							0 0016	for Target Analytes-		0 032 U	0 033 U	0 04 U	0 16 U	0 16 U	0 081 U	0 083 U	0 079 U	0 16 U	0 04 U
PCB-1248 (Aroclor 1248)	5105 MG/KG							0 0016	Recreational Fishers		0 032 U	0 033 U	0 04 U	0 16 U	0 16 U	0 081 U	0 083 U	0 079 U	0 16 U	0 04 U
PCB-1254 (Aroclor 1254)	5090 MG/KG							0 0016			0 19 U	0 16 U	0 16 U	1 U	0 68 U	0 32 U	0 31 U	0 32 U	0 92 U	0 15 U
PCB-1260 (Aroclor 1260)	5110 MG/KG							0 0016			0 19	0 16	0 16	1 J	0 68	0 32	0 31	0 32	0 92	0 15
Aroclor 1260		<1 0	1 0-1 99	2	0 1-0 3	0 3-0 99	>1 0		0 08	0 02	0 19	0.16	0 16	1	0 68	0.32	0 31	0 32	0 92	0 15
Total PCBs*											0 54	0 485	0 52	2 8	2 18	1 045	1 035	1 035	2 64	0 5

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC indicates that data unusable Compound may or may not be present Resampling and reanalysis is necessary for verification
C-Confirmed by GCMS
1.When no value is reported, see chlordane constituents
2 Constituents or metabolites of technical chlordane.

Table 10. Coosa River Fish Tissue PCB Arochlor Data for EPA Location Logan Martin

PCB Scan		Alabama Fish Advisory Criteria: No Restriction (mg/kg)	Limited Consumption (mg/kg)	Total Restriction (mg/kg)	Georgia Fish Advisory: 1 Meal/Week (mg/kg)	1 Meal/Month (mg/kg)	Total Restriction (mg/kg)	Region 3 RBC (mg/kg)	EPA Screening Non-Cancer (mg/kg)	Screening Cancer (mg/kg)	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-BCF4 12/09/2002	LM-BCF5 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB2 11/21/2002	LM-LMB3 11/21/2002	LM-LMB4 11/21/2002	LM-SPB1 11/21/2002
PCB-1016 (Aroclor 1016)	5115 MG/KG							0.0451	EPA-823-B-00-007 (2000		0.016 U	0.016 U	0.016 U	0.0038 U	0.0036 U	0.0045 U	0.008 U	0.016 U	0.0032 U	0.0044 U
PCB-1221 (Aroclor 1221)	5095 MG/KG							0.0016	Dose-Response variables		0.016 U	0.016 U	0.016 U	0.0038 U	0.0036 U	0.0045 U	0.008 U	0.016 U	0.0032 U	0.0044 U
PCB-1232 (Aroclor 1232)	5100 MG/KG							0.0016	and Recommended SV		0.016 U	0.016 U	0.016 U	0.0038 U	0.0036 U	0.0045 U	0.008 U	0.016 U	0.0032 U	0.0044 U
PCB-1242 (Aroclor 1242)	5085 MG/KG							0.0016	for Target Analytes-		0.016 U	0.016 U	0.016 U	0.0038 U	0.0036 U	0.0045 U	0.008 U	0.016 U	0.0032 U	0.0044 U
PCB-1248 (Aroclor 1248)	5105 MG/KG							0.0016	Recreational Fishers		0.016 U	0.016 U	0.016 U	0.0038 U	0.0036 U	0.0045 U	0.008 U	0.016 U	0.0032 U	0.0044 U
PCB-1254 (Aroclor 1254)	5090 MG/KG							0.0016			0.15 U	0.2 U	0.055 U	0.079 U	0.42 U	0.19 U	0.18 U	0.21 U	0.053 U	0.42 U
PCB-1260 (Aroclor 1260)	5110 MG/KG							0.0016			0.19	0.21	0.06	0.079	0.42	0.19	0.18	0.21	0.053	0.42
Aroclor 1260		<1.0	1.0-1.99	2	0.1-0.29	0.3-0.99	>1.0		0.08	0.02	0.19	0.21	0.06	0.079	0.42	0.19	0.18	0.21	0.053	0.42
Total PCBs*											0.42	0.49	0.195	0.177	0.858	0.4025	0.4	0.5	0.122	0.862

* Total calculated using U values as detects- worst case

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected The number is the minimum quantitation limit
R-QC indicates that data unusable Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS
1.When no value is reported, see chlordane constituents
2.Constituents or metabolites of technical chlordane

Table 11. Coosa River Fish Tissue PCB Congener Data 1/10 Detection Calculations for Location CR1

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	0.1	0.0076	0.013	0.01	0.016	0.0077
PCB Congener #114	MG/KG	0.0005	0.007 U	0.0019 U	0.0012 U	0.0031 U	0.0031 U	0.0025 U
PCB Congener #118	MG/KG	0.0001	0.16	0.011	0.016 C	0.015 C	0.056 C	0.0094
PCB Congener #123	MG/KG	0.0001	0.0063 U	0.0019 U	0.00062 U	0.0031 U	0.0031 U	0.0012 U
PCB Congener #126	MG/KG	0.1	0.00063 U	0.0019 U	0.00062 U	0.00063 U	0.0012 U	0.0012 U
PCB Congener #156	MG/KG	0.0005	0.052	0.0044	0.0026	0.0029	0.0048	0.0011
PCB Congener #157	MG/KG	0.0005	0.007 U	0.0028 U	0.00044 JN	0.00063 U	0.0031 U	0.00091 U
PCB Congener #167	MG/KG	0.00001	0.041	0.0042	0.0021	0.0032	0.0087	0.0018
PCB Congener #169	MG/KG	0.01	0.00063 U	0.00063 U	0.00062 U	0.00063 U	0.00062 U	0.00063 U
PCB Congener #189	MG/KG	0.0001	0.012	0.0013	0.00028 J	0.0002 J	0.00067 J	0.00017 J
PCB Congener #77	MG/KG	0.0001	0.013 U	0.0019 U	0.0025 U	0.0031 U	0.0062 U	0.0025 U
PCB Congener #81	MG/KG	0.0001	0.0016 U	0.00063 U	0.00062 U	0.00063 U	0.0012 U	0.0025 U

Tissue Data 1/10 of Non-detect Calculations

PCB Congener		TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	1.000E-01	7.600E-03	1.300E-02	1.000E-02	1.600E-02	7.700E-03
PCB Congener #114	MG/KG	0.0005	7.000E-04 U	1.900E-04 U	1.200E-04 U	3.100E-04 U	3.100E-04 U	2.500E-04 U
PCB Congener #118	MG/KG	0.0001	1.600E-01	1.100E-02	1.600E-02 C	1.500E-02 C	5.600E-02 C	9.400E-03
PCB Congener #123	MG/KG	0.0001	6.300E-04 U	1.900E-04 U	6.200E-05 U	3.100E-04 U	3.100E-04 U	1.200E-04 U
PCB Congener #126	MG/KG	0.1	6.300E-05 U	1.900E-04 U	6.200E-05 U	6.300E-05 U	1.200E-04 U	1.200E-04 U
PCB Congener #156	MG/KG	0.0005	5.200E-02	4.400E-03	2.600E-03	2.900E-03	4.800E-03	1.100E-03
PCB Congener #157	MG/KG	0.0005	7.000E-04 U	2.800E-04 U	4.400E-04 JN	6.300E-05 U	3.100E-04 U	9.100E-05 U
PCB Congener #167	MG/KG	0.00001	4.100E-02	4.200E-03	2.100E-03	3.200E-03	8.700E-03	1.800E-03
PCB Congener #169	MG/KG	0.01	6.300E-05 U	6.300E-05 U	6.200E-05 U	6.300E-05 U	6.200E-05 U	6.300E-05 U
PCB Congener #189	MG/KG	0.0001	1.200E-02	1.300E-03	2.800E-04 J	2.000E-04 J	6.700E-04 J	1.700E-04 J
PCB Congener #77	MG/KG	0.0001	1.300E-03 U	1.900E-04 U	2.500E-04 U	3.100E-04 U	6.200E-04 U	2.500E-04 U
PCB Congener #81	MG/KG	0.0001	1.600E-04 U	6.300E-05 U	6.200E-05 U	6.300E-05 U	1.200E-04 U	2.500E-04 U

Tissue Data 1/10 of Non-detect TEQ Results

PCB Congener		TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	1.0E-05	7.6E-07	1.3E-06	1.0E-06	1.6E-06	7.7E-07
PCB Congener #114	MG/KG	0.0005	3.5E-07 U	9.5E-08 U	6.0E-08 U	1.6E-07 U	1.6E-07 U	1.3E-07 U
PCB Congener #118	MG/KG	0.0001	1.6E-05	1.1E-06	1.6E-06 C	1.5E-06 C	5.6E-06 C	9.4E-07
PCB Congener #123	MG/KG	0.0001	6.3E-08 U	1.9E-08 U	6.2E-09 U	3.1E-08 U	3.1E-08 U	1.2E-08 U
PCB Congener #126	MG/KG	0.1	6.3E-06 U	1.9E-05 U	6.2E-06 U	6.3E-06 U	1.2E-05 U	1.2E-05 U
PCB Congener #156	MG/KG	0.0005	2.6E-05	2.2E-06	1.3E-06	1.5E-06	2.4E-06	5.5E-07
PCB Congener #157	MG/KG	0.0005	3.5E-07 U	1.4E-07 U	2.2E-07 JN	3.2E-08 U	1.6E-07 U	4.6E-08 U
PCB Congener #167	MG/KG	0.00001	4.1E-07	4.2E-08	2.1E-08	3.2E-08	8.7E-08	1.8E-08
PCB Congener #169	MG/KG	0.01	6.3E-07 U	6.3E-07 U	6.2E-07 U	6.3E-07 U	6.2E-07 U	6.3E-07 U
PCB Congener #189	MG/KG	0.0001	1.2E-06	1.3E-07	2.8E-08 J	2.0E-08 J	6.7E-08 J	1.7E-08 J
PCB Congener #77	MG/KG	0.0001	1.3E-07 U	1.9E-08 U	2.5E-08 U	3.1E-08 U	6.2E-08 U	2.5E-08 U
PCB Congener #81	MG/KG	0.0001	1.6E-08 U	6.3E-09 U	6.2E-09 U	6.3E-09 U	1.2E-08 U	2.5E-08 U
Total TEQ			6.1E-05	2.4E-05	1.1E-05	1.1E-05	2.3E-05	1.5E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 12. Coosa River Fish Tissue PCB Congener Data 1/2 Detection Limit Calculations for Location CR1

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	0.1	0.0076	0.013	0.01	0.016	0.0077
PCB Congener #114	MG/KG	0.0005	0.007 U	0.0019 U	0.0012 U	0.0031 U	0.0031 U	0.0025 U
PCB Congener #118	MG/KG	0.0001	0.16	0.011	0.016 C	0.015 C	0.056 C	0.0094
PCB Congener #123	MG/KG	0.0001	0.0063 U	0.0019 U	0.00062 U	0.0031 U	0.0031 U	0.0012 U
PCB Congener #126	MG/KG	0.1	0.00063 U	0.0019 U	0.00062 U	0.00063 U	0.0012 U	0.0012 U
PCB Congener #156	MG/KG	0.0005	0.052	0.0044	0.0026	0.0029	0.0048	0.0011
PCB Congener #157	MG/KG	0.0005	0.007 U	0.0028 U	0.00044 JN	0.00063 U	0.0031 U	0.00091 U
PCB Congener #167	MG/KG	0.00001	0.041	0.0042	0.0021	0.0032	0.0087	0.0018
PCB Congener #169	MG/KG	0.01	0.00063 U	0.00063 U	0.00062 U	0.00063 U	0.00062 U	0.00063 U
PCB Congener #189	MG/KG	0.0001	0.012	0.0013	0.00028 J	0.0002 J	0.00067 J	0.00017 J
PCB Congener #77	MG/KG	0.0001	0.013 U	0.0019 U	0.0025 U	0.0031 U	0.0062 U	0.0025 U
PCB Congener #81	MG/KG	0.0001	0.0016 U	0.00063 U	0.00062 U	0.00063 U	0.0012 U	0.0025 U

Tissue 1/2 of Non-detect Calculations

PCB Congener		TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	1.0E-01	7.6E-03	1.3E-02	1.0E-02	1.6E-02	7.7E-03
PCB Congener #114	MG/KG	0.0005	3.5E-03 U	9.5E-04 U	6.0E-04 U	1.6E-03 U	1.6E-03 U	1.3E-03 U
PCB Congener #118	MG/KG	0.0001	1.6E-01	1.1E-02	1.6E-02 C	1.5E-02 C	5.6E-02 C	9.4E-03
PCB Congener #123	MG/KG	0.0001	3.2E-03 U	9.5E-04 U	3.1E-04 U	1.6E-03 U	1.6E-03 U	6.0E-04 U
PCB Congener #126	MG/KG	0.1	3.2E-04 U	9.5E-04 U	3.1E-04 U	3.2E-04 U	6.0E-04 U	6.0E-04 U
PCB Congener #156	MG/KG	0.0005	5.2E-02	4.4E-03	2.6E-03	2.9E-03	4.8E-03	1.1E-03
PCB Congener #157	MG/KG	0.0005	3.5E-03 U	1.4E-03 U	4.4E-04 JN	3.2E-04 U	1.6E-03 U	4.6E-04 U
PCB Congener #167	MG/KG	0.00001	4.1E-02	4.2E-03	2.1E-03	3.2E-03	8.7E-03	1.8E-03
PCB Congener #169	MG/KG	0.01	3.2E-04 U	3.2E-04 U	3.1E-04 U	3.2E-04 U	3.1E-04 U	3.2E-04 U
PCB Congener #189	MG/KG	0.0001	1.2E-02	1.3E-03	2.8E-04 J	2.0E-04 J	6.7E-04 J	1.7E-04 J
PCB Congener #77	MG/KG	0.0001	6.5E-03 U	9.5E-04 U	1.3E-03 U	1.6E-03 U	3.1E-03 U	1.3E-03 U
PCB Congener #81	MG/KG	0.0001	8.0E-04 U	3.2E-04 U	3.1E-04 U	3.2E-04 U	6.0E-04 U	1.3E-03 U

Tissue Data 1/2 of Non-detect Results

PCB Congener		TEFs	CR1-SBF1 3.8E+04	CR1-SBF2 3.8E+04	CR1-SBF3 3.8E+04	CR1-SPB1 3.8E+04	CR1-SPB5 3.8E+04	CR1-SPB6 3.8E+04
PCB Congener #105	MG/KG	0.0001	1.0E-05	7.6E-07	1.3E-06	1.0E-06	1.6E-06	7.7E-07
PCB Congener #114	MG/KG	0.0005	1.8E-06 U	4.8E-07 U	3.0E-07 U	7.8E-07 U	7.8E-07 U	6.3E-07 U
PCB Congener #118	MG/KG	0.0001	1.6E-05	1.1E-06	1.6E-06 C	1.5E-06 C	5.6E-06 C	9.4E-07
PCB Congener #123	MG/KG	0.0001	3.2E-07 U	9.5E-08 U	3.1E-08 U	1.6E-07 U	1.6E-07 U	6.0E-08 U
PCB Congener #126	MG/KG	0.1	3.2E-05 U	9.5E-05 U	3.1E-05 U	3.2E-05 U	6.0E-05 U	6.0E-05 U
PCB Congener #156	MG/KG	0.0005	2.6E-05	2.2E-06	1.3E-06	1.5E-06	2.4E-06	5.5E-07
PCB Congener #157	MG/KG	0.0005	1.8E-06 U	7.0E-07 U	2.2E-07 JN	1.6E-07 U	7.8E-07 U	2.3E-07 U
PCB Congener #167	MG/KG	0.00001	4.1E-07	4.2E-08	2.1E-08	3.2E-08	8.7E-08	1.8E-08
PCB Congener #169	MG/KG	0.01	3.2E-06 U	3.2E-06 U	3.1E-06 U	3.2E-06 U	3.1E-06 U	3.2E-06 U
PCB Congener #189	MG/KG	0.0001	1.2E-06	1.3E-07	2.8E-08 J	2.0E-08 J	6.7E-08 J	1.7E-08 J
PCB Congener #77	MG/KG	0.0001	6.5E-07 U	9.5E-08 U	1.3E-07 U	1.6E-07 U	3.1E-07 U	1.3E-07 U
PCB Congener #81	MG/KG	0.0001	8.0E-08 U	3.2E-08 U	3.1E-08 U	3.2E-08 U	6.0E-08 U	1.3E-07 U
Total TEQ			9.3E-05	1.0E-04	3.9E-05	4.0E-05	7.5E-05	6.7E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-08

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 13. Coosa River Fish Tissue PCB Congener Data Detects Only Calculations for Location CR1

PCB Congener		EPA 823-B-00-007 TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	1.0E-01	7.6E-03	1.3E-02	1.0E-02	1.6E-02	7.7E-03
PCB Congener #114	MG/KG	0.0005	7.0E-03 U	1.9E-03 U	1.2E-03 U	3.1E-03 U	3.1E-03 U	2.5E-03 U
PCB Congener #118	MG/KG	0.0001	1.6E-01	1.1E-02	1.6E-02 C	1.5E-02 C	5.6E-02 C	9.4E-03
PCB Congener #123	MG/KG	0.0001	6.3E-03 U	1.9E-03 U	6.2E-04 U	3.1E-03 U	3.1E-03 U	1.2E-03 U
PCB Congener #126	MG/KG	0.1	6.3E-04 U	1.9E-03 U	6.2E-04 U	6.3E-04 U	1.2E-03 U	1.2E-03 U
PCB Congener #156	MG/KG	0.0005	5.2E-02	4.4E-03	2.6E-03	2.9E-03	4.8E-03	1.1E-03
PCB Congener #157	MG/KG	0.0005	7.0E-03 U	2.8E-03 U	4.4E-04 JN	6.3E-04 U	3.1E-03 U	9.1E-04 U
PCB Congener #167	MG/KG	0.00001	4.1E-02	4.2E-03	2.1E-03	3.2E-03	8.7E-03	1.8E-03
PCB Congener #169	MG/KG	0.01	6.3E-04 U	6.3E-04 U	6.2E-04 U	6.3E-04 U	6.2E-04 U	6.3E-04 U
PCB Congener #189	MG/KG	0.0001	1.2E-02	1.3E-03	2.8E-04 J	2.0E-04 J	6.7E-04 J	1.7E-04 J
PCB Congener #77	MG/KG	0.0001	1.3E-02 U	1.9E-03 U	2.5E-03 U	3.1E-03 U	6.2E-03 U	2.5E-03 U
PCB Congener #81	MG/KG	0.0001	1.6E-03 U	6.3E-04 U	6.2E-04 U	6.3E-04 U	1.2E-03 U	2.5E-03 U

Tissue data detects only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	CR1-SBF1 11/19/2002	CR1-SBF2 11/19/2002	CR1-SBF3 11/19/2002	CR1-SPB1 11/19/2002	CR1-SPB5 11/21/2002	CR1-SPB6 11/21/2002
PCB Congener #105	MG/KG	0.0001	1.0E-05	7.6E-07	1.3E-06	1.0E-06	1.6E-06	7.7E-07
PCB Congener #114	MG/KG	0.0005	U	U	U	U	U	U
PCB Congener #118	MG/KG	0.0001	1.6E-05	1.1E-06	1.6E-06 C	1.5E-06 C	5.6E-06 C	9.4E-07
PCB Congener #123	MG/KG	0.0001	U	U	U	U	U	U
PCB Congener #126	MG/KG	0.1	U	U	U	U	U	U
PCB Congener #156	MG/KG	0.0005	2.6E-05	2.2E-06	1.3E-06	1.5E-06	2.4E-06	5.5E-07
PCB Congener #157	MG/KG	0.0005	U	U	JN	U	U	U
PCB Congener #167	MG/KG	0.00001	4.1E-07	4.2E-08	2.1E-08	3.2E-08	8.7E-08	1.8E-08
PCB Congener #169	MG/KG	0.01	U	U	U	U	U	U
PCB Congener #189	MG/KG	0.0001	1.2E-06	1.3E-07	2.8E-08 J	2.0E-08 J	6.7E-08 J	1.7E-08 J
PCB Congener #77	MG/KG	0.0001	U	U	U	U	U	U
PCB Congener #81	MG/KG	0.0001	U	U	U	U	U	U
Total TEQ			5.36E-05	4.23E-06	4.25E-06	4.00E-06	9.75E-06	2.30E-06

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 14. Coosa River Fish Tissue PCB Congener Data 1/10 Detection Limit Calculations for Location CR2

Tissue Data		EPA 823-B-00-007	CR2-LMB1	CR-LMB2	CR-LMB3	CR2-SBF1	CR2-SBF2	CR-SBF3	CR2 SBF1D
PCB Congener		TEFs	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002
PCB Congener #105	MG/KG	0.0001	0.00074 N	0.0031 N	0.0027 N	0.022 N	0.027 N	0.0091 N	0.016 N
PCB Congener #114	MG/KG	0.0005	0.0031 U	0.0022 U	0.0035 U	0.036 U	0.022 U	0.025 U	0.02 U
PCB Congener #118	MG/KG	0.0001	0.0027 N	0.0077	0.0069	0.048	0.085	0.025	0.046
PCB Congener #123	MG/KG	0.0001	0.00075 U	0.0019 U	0.0018 U	0.022 U	0.012 U	0.0045 U	0.016 U
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00064 U	0.00064 U	0.0036 U	0.014 U	0.0048 U	0.0025 U
PCB Congener #156	MG/KG	0.0005	0.00067 N	0.0013	0.0013 N	0.0038 J	0.013 J	0.0029 J	0.0038
PCB Congener #157	MG/KG	0.0005	0.0017 U	0.002 N	0.0029 U	0.0098 N	0.015 N	0.006 U	0.012 N
PCB Congener #167	MG/KG	0.00001	0.00064 U	0.0003 J	0.00064 U	0.0033 U	0.0061 U	0.0026 U	0.0024 U
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00064 U	0.00064 U	0.00065 U	0.00063 U	0.00064 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00074 U	0.00076 U	0.00078 U	0.00086 U	0.0018 U	0.00023 N	0.0009 U
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.00064 U	0.00064 U	0.013 U	0.025 U	0.013 U	0.0025 U
PCB Congener #81	MG/KG	0.0001	0.004 U	0.012 U	0.016 U	0.11 U	0.14 U	0.061 U	0.095 U

Tissue Data 1/10 of Non-detect Calculations

PCB Congener		TEFs	CR2-LMB1 11/18/2002	CR-LMB2 11/18/2002	CR-LMB3 11/18/2002	CR2-SBF1 11/18/2002	CR2-SBF2 11/18/2002	CR-SBF3 11/18/2002	CR2 SBF1D 11/18/2002
PCB Congener #105	MG/KG	0.0001	7.4E-05 N	3.1E-04 N	2.7E-04 N	2.2E-03 N	2.7E-03 N	9.1E-04 N	1.6E-03 N
PCB Congener #114	MG/KG	0.0005	3.1E-04 U	2.2E-04 U	3.5E-04 U	3.6E-03 U	2.2E-03 U	2.5E-03 U	2.0E-03 U
PCB Congener #118	MG/KG	0.0001	2.7E-04 N	7.7E-03	6.9E-03	4.8E-02	8.5E-02	2.5E-02	4.6E-02
PCB Congener #123	MG/KG	0.0001	7.5E-05 U	1.9E-04 U	1.8E-04 U	2.2E-03 U	1.2E-03 U	4.5E-04 U	1.6E-03 U
PCB Congener #126	MG/KG	0.1	6.4E-05 U	6.4E-05 U	6.4E-05 U	3.6E-04 U	1.4E-03 U	4.8E-04 U	2.5E-04 U
PCB Congener #156	MG/KG	0.0005	6.7E-05 N	1.3E-03	1.3E-04 N	3.8E-03 J	1.3E-02 J	2.9E-03 J	3.8E-03
PCB Congener #157	MG/KG	0.0005	1.7E-04 U	2.0E-04 N	2.9E-04 U	9.8E-04 N	1.5E-03 N	6.0E-04 U	1.2E-03 N
PCB Congener #167	MG/KG	0.00001	6.4E-05 U	3.0E-04 J	6.4E-05 U	3.3E-04 U	6.1E-04 U	2.6E-04 U	2.4E-04 U
PCB Congener #169	MG/KG	0.01	6.4E-05 U	6.4E-05 U	6.4E-05 U	6.5E-05 U	6.3E-05 U	6.4E-05 U	6.4E-05 U
PCB Congener #189	MG/KG	0.0001	7.4E-05 U	7.6E-05 U	7.8E-05 U	8.6E-05 U	1.8E-04 U	2.3E-05 N	9.0E-05 U
PCB Congener #77	MG/KG	0.0001	6.4E-05 U	6.4E-05 U	6.4E-05 U	1.3E-03 U	2.5E-03 U	1.3E-03 U	2.5E-04 U
PCB Congener #81	MG/KG	0.0001	4.0E-04 U	1.2E-03 U	1.6E-03 U	1.1E-02 U	1.4E-02 U	6.1E-03 U	9.5E-03 U

Tissue Data 1/10 of Non-detect TEQ Results

PCB Congener		TEFs	CR2-LMB1 11/18/2002	CR-LMB2 11/18/2002	CR-LMB3 11/18/2002	CR2-SBF1 11/18/2002	CR2-SBF2 11/18/2002	CR-SBF3 11/18/2002	CR2 SBF1D 11/18/2002
PCB Congener #105	MG/KG	0.0001	7.4E-09 N	3.1E-08 N	2.7E-08 N	2.2E-07 N	2.7E-07 N	9.1E-08 N	1.6E-07 N
PCB Congener #114	MG/KG	0.0005	1.6E-07 U	1.1E-07 U	1.8E-07 U	1.8E-06 U	1.1E-06 U	1.3E-06 U	1.0E-06 U
PCB Congener #118	MG/KG	0.0001	2.7E-08 N	7.7E-07	6.9E-07	4.8E-06	8.5E-06	2.5E-06	4.6E-06
PCB Congener #123	MG/KG	0.0001	7.5E-09 U	1.9E-08 U	1.8E-08 U	2.2E-07 U	1.2E-07 U	4.5E-08 U	1.6E-07 U
PCB Congener #126	MG/KG	0.1	6.4E-06 U	6.4E-06 U	6.4E-06 U	3.6E-05 U	1.4E-04 U	4.8E-05 U	2.5E-05 U
PCB Congener #156	MG/KG	0.0005	3.4E-08 N	6.5E-07	6.5E-08 N	1.9E-06 J	6.5E-06 J	1.5E-06 J	1.9E-06
PCB Congener #157	MG/KG	0.0005	8.5E-08 U	1.0E-07 N	1.5E-07 U	4.9E-07 N	7.5E-07 N	3.0E-07 U	6.0E-07 N
PCB Congener #167	MG/KG	0.00001	6.4E-10 U	3.0E-09 J	6.4E-10 U	3.3E-09 U	6.1E-09 U	2.6E-09 U	2.4E-09 U
PCB Congener #169	MG/KG	0.01	6.4E-07 U	6.4E-07 U	6.4E-07 U	6.5E-07 U	6.3E-07 U	6.4E-07 U	6.4E-07 U
PCB Congener #189	MG/KG	0.0001	7.4E-09 U	7.6E-09 U	7.8E-09 U	8.6E-09 U	1.8E-08 U	2.3E-09 N	9.0E-09 U
PCB Congener #77	MG/KG	0.0001	6.4E-09 U	6.4E-09 U	6.4E-09 U	1.3E-07 U	2.5E-07 U	1.3E-07 U	2.5E-08 U
PCB Congener #81	MG/KG	0.0001	4.0E-08 U	1.2E-07 U	1.6E-07 U	1.1E-06 U	1.4E-06 U	6.1E-07 U	9.5E-07 U
Total TEQ			7.4E-06	8.9E-06	8.3E-06	4.7E-05	1.6E-04	5.4E-05	3.5E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 15. Coosa River Fish Tissue PCB Congener Data 1/2 Detection Limit Calculations for Location CR2

Tissue Data		EPA 823-B-00-007	CR2-LMB1	CR-LMB2	CR-LMB3	CR2-SBF1	CR2-SBF2	CR-SBF3	CR2 SBF1D
PCB Congener		TEFs	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002
PCB Congener #105	MG/KG	0.0001	0.00074 N	0.0031 N	0.0027 N	0.022 N	0.027 N	0.0091 N	0.016 N
PCB Congener #114	MG/KG	0.0005	0.0031 U	0.0022 U	0.0035 U	0.036 U	0.022 U	0.025 U	0.02 U
PCB Congener #118	MG/KG	0.0001	0.0027 N	0.0077	0.0069	0.048	0.085	0.025	0.046
PCB Congener #123	MG/KG	0.0001	0.00075 U	0.0019 U	0.0018 U	0.022 U	0.012 U	0.0045 U	0.016 U
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00064 U	0.00064 U	0.0036 U	0.014 U	0.0048 U	0.0025 U
PCB Congener #156	MG/KG	0.0005	0.00067 N	0.0013	0.0013 N	0.0038 J	0.013 J	0.0029 J	0.0038
PCB Congener #157	MG/KG	0.0005	0.0017 U	0.002 N	0.0029 U	0.0098 N	0.015 N	0.006 U	0.012 N
PCB Congener #167	MG/KG	0.00001	0.00064 U	0.0003 J	0.00064 U	0.0033 U	0.0061 U	0.0026 U	0.0024 U
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00064 U	0.00064 U	0.00065 U	0.00063 U	0.00064 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00074 U	0.00076 U	0.00078 U	0.00086 U	0.0018 U	0.00023 N	0.0009 U
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.00064 U	0.00064 U	0.013 U	0.025 U	0.013 U	0.0025 U
PCB Congener #81	MG/KG	0.0001	0.004 U	0.012 U	0.016 U	0.11 U	0.14 U	0.061 U	0.095 U

Tissue Data 1/2 of Non-detect Calculations			CR2-LMB1	CR-LMB2	CR-LMB3	CR2-SBF1	CR2-SBF2	CR-SBF3	CR2 SBF1D
PCB Congener		TEFs	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002
PCB Congener #105	MG/KG	0.0001	3.7E-04 N	1.6E-03 N	1.4E-03 N	1.1E-02 N	1.4E-02 N	4.6E-03 N	8.0E-03 N
PCB Congener #114	MG/KG	0.0005	1.6E-03 U	1.1E-03 U	1.8E-03 U	1.8E-02 U	1.1E-02 U	1.3E-02 U	1.0E-02 U
PCB Congener #118	MG/KG	0.0001	1.4E-03 N	7.7E-03	6.9E-03	4.8E-02	8.5E-02	2.5E-02	4.6E-02
PCB Congener #123	MG/KG	0.0001	3.8E-04 U	9.5E-04 U	9.0E-04 U	1.1E-02 U	6.0E-03 U	2.3E-03 U	8.0E-03 U
PCB Congener #126	MG/KG	0.1	3.2E-04 U	3.2E-04 U	3.2E-04 U	1.8E-03 U	7.0E-03 U	2.4E-03 U	1.3E-03 U
PCB Congener #156	MG/KG	0.0005	3.4E-04 N	1.3E-03	6.5E-04 N	3.8E-03 J	1.3E-02 J	2.9E-03 J	3.8E-03
PCB Congener #157	MG/KG	0.0005	8.5E-04 U	1.0E-03 N	1.5E-03 U	4.9E-03 N	7.5E-03 N	3.0E-03 U	6.0E-03 N
PCB Congener #167	MG/KG	0.00001	3.2E-04 U	3.0E-04 J	3.2E-04 U	1.7E-03 U	3.1E-03 U	1.3E-03 U	1.2E-03 U
PCB Congener #169	MG/KG	0 01	3.2E-04 U	3.2E-04 U	3.2E-04 U	3.3E-04 U	3.2E-04 U	3.2E-04 U	3.2E-04 U
PCB Congener #189	MG/KG	0.0001	3.7E-04 U	3.8E-04 U	3.9E-04 U	4.3E-04 U	9.0E-04 U	1.2E-04 N	4.5E-04 U
PCB Congener #77	MG/KG	0.0001	3.2E-04 U	3.2E-04 U	3.2E-04 U	6.5E-03 U	1.3E-02 U	6.5E-03 U	1.3E-03 U
PCB Congener #81	MG/KG	0.0001	2.0E-03 U	6.0E-03 U	8.0E-03 U	5.5E-02 U	7.0E-02 U	3.1E-02 U	4.8E-02 U

Tissue Data 1/2 of Non-detects TEQ Results			CR2-LMB1	CR-LMB2	CR-LMB3	CR2-SBF1	CR2-SBF2	CR-SBF3	CR2 SBF1D
PCB Congener		TEFs	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002	11/18/2002
PCB Congener #105	MG/KG	0.0001	3.7E-08 N	1.6E-07 N	1.4E-07 N	1.1E-06 N	1.4E-06 N	4.6E-07 N	8.0E-07 N
PCB Congener #114	MG/KG	0.0005	7.8E-07 U	5.5E-07 U	8.8E-07 U	9.0E-06 U	5.5E-06 U	6.3E-06 U	5.0E-06 U
PCB Congener #118	MG/KG	0.0001	1.4E-07 N	7.7E-07	6.9E-07	4.8E-06	8.5E-06	2.5E-06	4.6E-06
PCB Congener #123	MG/KG	0.0001	3.8E-08 U	9.5E-08 U	9.0E-08 U	1.1E-06 U	6.0E-07 U	2.3E-07 U	8.0E-07 U
PCB Congener #126	MG/KG	0.1	3.2E-05 U	3.2E-05 U	3.2E-05 U	1.8E-04 U	7.0E-04 U	2.4E-04 U	1.3E-04 U
PCB Congener #156	MG/KG	0.0005	1.7E-07 N	6.5E-07	3.3E-07 N	1.9E-06 J	6.5E-06 J	1.5E-06 J	1.9E-06
PCB Congener #157	MG/KG	0.0005	4.3E-07 U	5.0E-07 N	7.3E-07 U	2.5E-06 N	3.8E-06 N	1.5E-06 U	3.0E-06 N
PCB Congener #167	MG/KG	0.00001	3.2E-09 U	3.0E-09 J	3.2E-09 U	1.7E-08 U	3.1E-08 U	1.3E-08 U	1.2E-08 U
PCB Congener #169	MG/KG	0.01	3.2E-06 U	3.2E-06 U	3.2E-06 U	3.3E-06 U	3.2E-06 U	3.2E-06 U	3.2E-06 U
PCB Congener #189	MG/KG	0.0001	3 7E-08 U	3.8E-08 U	3.9E-08 U	4 3E-08 U	9.0E-08 U	1.2E-08 N	4.5E-08 U
PCB Congener #77	MG/KG	0.0001	3.2E-08 U	3.2E-08 U	3.2E-08 U	6.5E-07 U	1.3E-06 U	6.5E-07 U	1.3E-07 U
PCB Congener #81	MG/KG	0.0001	2.0E-07 U	6.0E-07 U	8.0E-07 U	5.5E-06 U	7.0E-06 U	3 1E-06 U	4.8E-06 U
Total TEQ			3.7E-05	3.8E-05	3.8E-05	2.1E-04	7.4E-04	2.6E-04	1.5E-04

USEPA Screening Value, Fnst Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 16. Coosa River Fish Tissue PCB Congener Data Detects Only Calculations for Location CR2

PCB Congener		EPA 823-B-00-007 TEFs	CR2-LMB1 11/18/2002	CR2-LMB2 11/18/2002	CR2-LMB3 11/18/2002	CR2-SBF1 11/18/2002	CR2-SBF2 11/18/2002	CR2-SBF3 11/18/2002
PCB Congener #105	MG/KG	0.0001	0.00074 N	0.0031 N	0.0027 N	0.022 N	0.027 N	0.0091 N
PCB Congener #114	MG/KG	0.0005	0.0031 U	0.0022 U	0.0035 U	0.036 U	0.022 U	0.025 U
PCB Congener #118	MG/KG	0.0001	0.0027 N	0.0077	0.0069	0.048	0.085	0.025
PCB Congener #123	MG/KG	0.0001	0.00075 U	0.0019 U	0.0018 U	0.022 U	0.012 U	0.0045 U
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00064 U	0.00064 U	0.0036 U	0.014 U	0.0048 U
PCB Congener #156	MG/KG	0.0005	0.00067 N	0.0013	0.0013 N	0.0038 J	0.013 J	0.0029 J
PCB Congener #157	MG/KG	0.0005	0.0017 U	0.002 N	0.0029 U	0.0098 N	0.015 N	0.006 U
PCB Congener #167	MG/KG	0.00001	0.00064 U	0.0003 J	0.00064 U	0.0033 U	0.0061 U	0.0026 U
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00064 U	0.00064 U	0.00065 U	0.00063 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00074 U	0.00076 U	0.00078 U	0.00086 U	0.0018 U	0.00023 N
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.00064 U	0.00064 U	0.013 U	0.025 U	0.013 U
PCB Congener #81	MG/KG	0.0001	0.004 U	0.012 U	0.016 U	0.11 U	0.14 U	0.061 U

Tissue data detects only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	CR2-LMB1 11/18/2002	CR2-LMB2 11/18/2002	CR2-LMB3 11/18/2002	CR2-SBF1 11/18/2002	CR2-SBF2 11/18/2002	CR2-SBF3 11/18/2002
PCB Congener #105	MG/KG	0.0001						
PCB Congener #114	MG/KG	0.0005						
PCB Congener #118	MG/KG	0.0001		7.700E-07	6.900E-07	4.800E-06	8.500E-06	2.500E-06
PCB Congener #123	MG/KG	0.0001						
PCB Congener #126	MG/KG	0.1						
PCB Congener #156	MG/KG	0.0005		6.500E-07		1.900E-06	6.500E-06	1.450E-06
PCB Congener #157	MG/KG	0.0005						
PCB Congener #167	MG/KG	0.00001		3.000E-09				
PCB Congener #169	MG/KG	0.01						
PCB Congener #189	MG/KG	0.0001						
PCB Congener #77	MG/KG	0.0001						
PCB Congener #81	MG/KG	0.0001						
Total TEQ				1.42E-06	6.90E-07	6.70E-06	1.50E-05	3.95E-06

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 17 Coosa River Fish Tissue PCB Congener Data 1/10 Detection Limit Calculations for Location CR3

Tissue Data		EPA 823-B-00-007	CR3-LMB1	CR3-LMB2	CR3-LMB3	CR3-SBF1	CR3-SBF2	CR3-SBF3	CR3 SBF1D
PCB Congener		TEFs	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	12/09/2002	11/20/2002
PCB Congener #105	MG/KG	0.0001	0.014 N	0.018 N	0.0068 N	0.0064 N	0.0038 N	0.0035 N	0.0035 N
PCB Congener #114	MG/KG	0.0005	0.014 U	0.013 U	0.01 U	0.0076 U	0.004 U	0.0054 U	0.0064 U
PCB Congener #118	MG/KG	0.0001	0.033 N	0.042	0.022	0.017	0.0081	0.014	0.014
PCB Congener #123	MG/KG	0.0001	0.0048 U	0.012 U	0.0047 U	0.0054 U	0.003 U	0.0037 U	0.0042 U
PCB Congener #126	MG/KG	0.1	0.0041 U	0.014 U	0.0026 U	0.0026 U	0.00066 U	0.0026 U	0.00066 U
PCB Congener #156	MG/KG	0.0005	0.0045 J	0.0093 N	0.0043 N	0.002 N	0.0012	0.0017	0.0014 J
PCB Congener #157	MG/KG	0.0005	0.012 N	0.016 N	0.0071 N	0.0024 N	0.0036 N	0.0029 N	0.0016 N
PCB Congener #167	MG/KG	0.00001	0.0033 U	0.0022 N	0.0015 J	0.0015 U	0.00025 J	0.0016 U	0.0015 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00065 U	0.00064 U	0.00065 U	0.00066 U	0.00065 U	0.00066 U
PCB Congener #189	MG/KG	0.0001	0.00048 N	0.00054 J	0.00026 J	0.00078 U	0.0007 U	0.00065 U	0.00082 U
PCB Congener #77	MG/KG	0.0001	0.0026 U	0.0065 U	0.0026 U	0.0026 U	0.00066 U	0.00065 U	0.0026 U
PCB Congener #81	MG/KG	0.0001	0.068 U	0.062 U	0.039 U	0.031 U	0.02 U	0.025 U	0.026 U

Tissue Data 1/10 of Detection Limit Calculations			CR3-LMB1	CR3-LMB2	CR3-LMB3	CR3-SBF1	CR3-SBF2	CR3-SBF3	CR3 SBF1D
PCB Congener		TEFs	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	12/09/2002	11/20/2002
PCB Congener #105	MG/KG	0 0001	7.0E-03 N	9.0E-03 N	3.4E-03 N	3.2E-03 N	1.9E-03 N	1.8E-03 N	1.8E-03 N
PCB Congener #114	MG/KG	0.0005	7.0E-03 U	6.5E-03 U	5.0E-03 U	3.8E-03 U	2.0E-03 U	2.7E-03 U	3.2E-03 U
PCB Congener #118	MG/KG	0.0001	1.7E-02 N	4.2E-02	2.2E-02	1.7E-02	8.1E-03	1.4E-02	1.4E-02
PCB Congener #123	MG/KG	0.0001	2.4E-03 U	6.0E-03 U	2.4E-03 U	2.7E-03 U	1.5E-03 U	1.9E-03 U	2.1E-03 U
PCB Congener #126	MG/KG	0.1	2.1E-03 U	7.0E-03 U	1.3E-03 U	1.3E-03 U	3.3E-04 U	1.3E-03 U	3.3E-04 U
PCB Congener #156	MG/KG	0.0005	4.5E-03 J	4.7E-03 N	2.2E-03 N	1.0E-03 N	1.2E-03	1.7E-03	1.4E-03 J
PCB Congener #157	MG/KG	0.0005	6.0E-03 N	8.0E-03 N	3.6E-03 N	1.2E-03 N	1.8E-03 N	1.5E-03 N	8.0E-04 N
PCB Congener #167	MG/KG	0.00001	1.7E-03 U	1.1E-03 N	1.5E-03 J	7.5E-04 U	2.5E-04 J	8.0E-04 U	1.5E-03 J
PCB Congener #169	MG/KG	0.01	3.2E-04 U	3.3E-04 U	3.2E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U
PCB Congener #189	MG/KG	0.0001	2.4E-04 N	5.4E-04 J	2.6E-04 J	3.9E-04 U	3.5E-04 U	3.3E-04 U	4.1E-04 U
PCB Congener #77	MG/KG	0 0001	1.3E-03 U	3.3E-03 U	1.3E-03 U	1.3E-03 U	3.3E-04 U	3.3E-04 U	1.3E-03 U
PCB Congener #81	MG/KG	0.0001	3.4E-02 U	3.1E-02 U	2.0E-02 U	1.6E-02 U	1.0E-02 U	1.3E-02 U	1.3E-02 U
Total TEQ									

Tissue Data 1/10 Detection Limit TEQ Results			CR3-LMB1	CR3-LMB2	CR3-LMB3	CR3-SBF1	CR3-SBF2	CR3-SBF3	CR3 SBF1D
PCB Congener		TEFs	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	12/09/2002	11/20/2002
PCB Congener #105	MG/KG	0.0001	7 0E-07 N	9.0E-07 N	3.4E-07 N	3.2E-07 N	1.9E-07 N	1.8E-07 N	1.8E-07 N
PCB Congener #114	MG/KG	0.0005	3.5E-06 U	3.3E-06 U	2.5E-06 U	1.9E-06 U	1.0E-06 U	1.4E-06 U	1.6E-06 U
PCB Congener #118	MG/KG	0.0001	1.7E-06 N	4.2E-06	2.2E-06	1.7E-06	8.1E-07	1.4E-06	1.4E-06
PCB Congener #123	MG/KG	0.0001	2 4E-07 U	6.0E-07 U	2.4E-07 U	2.7E-07 U	1.5E-07 U	1.9E-07 U	2.1E-07 U
PCB Congener #126	MG/KG	0.1	2.1E-04 U	7.0E-04 U	1.3E-04 U	1.3E-04 U	3.3E-05 U	1.3E-04 U	3.3E-05 U
PCB Congener #156	MG/KG	0.0005	2.3E-06 J	2.3E-06 N	1.1E-06 N	5.0E-07 N	6.0E-07	8.5E-07	7.0E-07 J
PCB Congener #157	MG/KG	0.0005	3.0E-06 N	4.0E-06 N	1.8E-06 N	6.0E-07 N	9.0E-07 N	7.3E-07 N	4.0E-07 N
PCB Congener #167	MG/KG	0.00001	1.7E-08 U	1.1E-08 N	1.5E-08 J	7.5E-09 U	2.5E-09 J	8.0E-09 U	1.5E-08 J
PCB Congener #169	MG/KG	0.01	3.2E-06 U	3.3E-06 U	3.2E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U
PCB Congener #189	MG/KG	0.0001	2.4E-08 N	5 4E-08 J	2.6E-08 J	3.9E-08 U	3.5E-08 U	3.3E-08 U	4.1E-08 U
PCB Congener #77	MG/KG	0.0001	1.3E-07 U	3.3E-07 U	1.3E-07 U	1.3E-07 U	3.3E-08 U	3.3E-08 U	1.3E-07 U
PCB Congener #81	MG/KG	0.0001	3.4E-06 U	3.1E-06 U	2.0E-06 U	1.6E-06 U	1.0E-06 U	1.3E-06 U	1.3E-06 U
Total TEQ			2.2E-04	7.2E-04	1.4E-04	1.4E-04	4.1E-05	1.4E-04	4.2E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected. The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS.

1.When no value is reported, see chlordane constituents.

2 Constituents or metabolites of technical chlordane.

Table 18. Coosa River PCB Congener Data 1/2 Detection Limit Calculations for Location CR3

PCB Congener		EPA 823-B-00-007 TEFs	CR3-LMB1 11/20/2002	CR3-LMB2 11/20/2002	CR3-LMB3 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3 SBF1D 11/20/2002
PCB Congener #105	MG/KG	0.0001	0.014 N	0.018 N	0.0068 N	0.0064 N	0.0038 N	0.0035 N	0.0035 N
PCB Congener #114	MG/KG	0.0005	0.014 U	0.013 U	0.01 U	0.0076 U	0.004 U	0.0054 U	0.0064 U
PCB Congener #118	MG/KG	0.0001	0.033 N	0.042	0 022	0.017	0.0081	0.014	0.014
PCB Congener #123	MG/KG	0.0001	0.0048 U	0.012 U	0.0047 U	0.0054 U	0.003 U	0.0037 U	0.0042 U
PCB Congener #126	MG/KG	0.1	0.0041 U	0.014 U	0.0026 U	0.0026 U	0.00066 U	0.0026 U	0.00066 U
PCB Congener #156	MG/KG	0.0005	0.0045 J	0.0093 N	0.0043 N	0.002 N	0.0012	0 0017	0.0014 J
PCB Congener #157	MG/KG	0.0005	0.012 N	0.016 N	0.0071 N	0.0024 N	0.0036 N	0.0029 N	0.0016 N
PCB Congener #167	MG/KG	0.00001	0.0033 U	0.0022 N	0.0015 J	0.0015 U	0.00025 J	0.0016 U	0.0015 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00065 U	0.00064 U	0.00065 U	0.00066 U	0.00065 U	0.00066 U
PCB Congener #189	MG/KG	0.0001	0.00048 N	0.00054 J	0.00026 J	0.00078 U	0.0007 U	0.00065 U	0.00082 U
PCB Congener #77	MG/KG	0.0001	0.0026 U	0.0065 U	0.0026 U	0.0026 U	0.00066 U	0.00065 U	0.0026 U
PCB Congener #81	MG/KG	0.0001	0.068 U	0.062 U	0.039 U	0.031 U	0.02 U	0.025 U	0.026 U

Tissue Data 1/2 of Detection Limit Calculations

PCB Congener		TEFs	CR3-LMB1 11/20/2002	CR3-LMB2 11/20/2002	CR3-LMB3 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3 SBF1D 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.0E-03 N	9.0E-03 N	3.4E-03 N	3.2E-03 N	1.9E-03 N	1.8E-03 N	1.8E-03 N
PCB Congener #114	MG/KG	0.0005	7.0E-03 U	6.5E-03 U	5.0E-03 U	3.8E-03 U	2.0E-03 U	2.7E-03 U	3.2E-03 U
PCB Congener #118	MG/KG	0.0001	1.7E-02 N	4.2E-02	2.2E-02	1.7E-02	8.1E-03	1.4E-02	1.4E-02
PCB Congener #123	MG/KG	0.0001	2.4E-03 U	6.0E-03 U	2.4E-03 U	2.7E-03 U	1.5E-03 U	1.9E-03 U	2.1E-03 U
PCB Congener #126	MG/KG	0.1	2.1E-03 U	7.0E-03 U	1.3E-03 U	1.3E-03 U	3.3E-04 U	1.3E-03 U	3.3E-04 U
PCB Congener #156	MG/KG	0.0005	4.5E-03 J	4.7E-03 N	2.2E-03 N	1.0E-03 N	1.2E-03	1.7E-03	1.4E-03 J
PCB Congener #157	MG/KG	0.0005	6.0E-03 N	8.0E-03 N	3.6E-03 N	1.2E-03 N	1.8E-03 N	1.5E-03 N	8.0E-04 N
PCB Congener #167	MG/KG	0.00001	1.7E-03 U	1.1E-03 N	1.5E-03 J	7.5E-04 U	2.5E-04 J	8.0E-04 U	1.5E-03 J
PCB Congener #169	MG/KG	0.01	3.2E-04 U	3.3E-04 U	3.2E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U
PCB Congener #189	MG/KG	0.0001	2.4E-04 N	5.4E-04 J	2.6E-04 J	3.9E-04 U	3.5E-04 U	3.3E-04 U	4.1E-04 U
PCB Congener #77	MG/KG	0.0001	1.3E-03 U	3.3E-03 U	1.3E-03 U	1.3E-03 U	3.3E-04 U	3.3E-04 U	1.3E-03 U
PCB Congener #81	MG/KG	0.0001	3.4E-02 U	3.1E-02 U	2.0E-02 U	1.6E-02 U	1.0E-02 U	1.3E-02 U	1.3E-02 U
Total TEQ									

Tissue Data 1/2 Detection Limit TEQ Results

PCB Congener		TEFs	CR3-LMB1 11/20/2002	CR3-LMB2 11/20/2002	CR3-LMB3 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3 SBF1D 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.0E-07 N	9.0E-07 N	3.4E-07 N	3.2E-07 N	1.9E-07 N	1.8E-07 N	1.8E-07 N
PCB Congener #114	MG/KG	0.0005	3.5E-06 U	3.3E-06 U	2.5E-06 U	1.9E-06 U	1.0E-06 U	1.4E-06 U	1.6E-06 U
PCB Congener #118	MG/KG	0.0001	1.7E-06 N	4.2E-06	2.2E-06	1.7E-06	8.1E-07	1.4E-06	1.4E-06
PCB Congener #123	MG/KG	0.0001	2.4E-07 U	6.0E-07 U	2.4E-07 U	2.7E-07 U	1.5E-07 U	1.9E-07 U	2.1E-07 U
PCB Congener #126	MG/KG	0.1	2.1E-04 U	7.0E-04 U	1.3E-04 U	1.3E-04 U	3.3E-05 U	1.3E-04 U	3.3E-05 U
PCB Congener #156	MG/KG	0.0005	2.3E-06 J	2.3E-06 N	1.1E-06 N	5.0E-07 N	6.0E-07	8.5E-07	7.0E-07 J
PCB Congener #157	MG/KG	0.0005	3.0E-06 N	4.0E-06 N	1.8E-06 N	6.0E-07 N	9.0E-07 N	7.3E-07 N	4.0E-07 N
PCB Congener #167	MG/KG	0.00001	1.7E-08 U	1.1E-08 N	1.5E-08 J	7.5E-09 U	2.5E-09 J	8.0E-09 U	1.5E-08 J
PCB Congener #169	MG/KG	0.01	3.2E-06 U	3.3E-06 U	3.2E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U
PCB Congener #189	MG/KG	0.0001	2.4E-08 N	5.4E-08 J	2.6E-08 J	3.9E-08 U	3.5E-08 U	3.3E-08 U	4.1E-08 U
PCB Congener #77	MG/KG	0.0001	1.3E-07 U	3.3E-07 U	1.3E-07 U	1.3E-07 U	3.3E-08 U	3.3E-08 U	1.3E-07 U
PCB Congener #81	MG/KG	0.0001	3.4E-06 U	3.1E-06 U	2.0E-06 U	1.6E-06 U	1.0E-06 U	1.3E-06 U	1.3E-06 U
Total TEQ			2.2E-04	7.2E-04	1.4E-04	1.4E-04	4.1E-05	1.4E-04	4.2E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected. The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS.

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane.

Table 19. Coosa River Fish Tissue PCB Congener Data Detects Only Calculations for Location CR3

PCB Congener		EPA 823-B-00-007 TEFs	CR3-LMB1 11/20/2002	CR3-LMB2 11/20/2002	CR3-LMB3 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3 SBF1D 11/20/2002
PCB Congener #105	MG/KG	0.0001	0.014 N	0.018 N	0 0068 N	0.0064 N	0.0038 N	0.0035 N	0.0035 N
PCB Congener #114	MG/KG	0.0005	0.014 U	0.013 U	0.01 U	0.0076 U	0.004 U	0.0054 U	0.0064 U
PCB Congener #118	MG/KG	0.0001	0.033 N	0.042	0.022	0.017	0.0081	0.014	0.014
PCB Congener #123	MG/KG	0.0001	0.0048 U	0.012 U	0.0047 U	0.0054 U	0.003 U	0.0037 U	0.0042 U
PCB Congener #126	MG/KG	0.1	0.0041 U	0.014 U	0.0026 U	0.0026 U	0.00066 U	0.0026 U	0.00066 U
PCB Congener #156	MG/KG	0.0005	0.0045 J	0.0093 N	0.0043 N	0.002 N	0.0012	0.0017	0.0014 J
PCB Congener #157	MG/KG	0.0005	0.012 N	0.016 N	0.0071 N	0.0024 N	0.0036 N	0.0029 N	0.0018 N
PCB Congener #167	MG/KG	0.00001	0.0033 U	0.0022 N	0.0015 J	0.0015 U	0.00025 J	0.0016 U	0.0015 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00065 U	0.00064 U	0.00065 U	0.00066 U	0.00065 U	0.00066 U
PCB Congener #189	MG/KG	0.0001	0.00048 N	0.00054 J	0.00026 J	0.00078 U	0.0007 U	0.00065 U	0.00062 U
PCB Congener #77	MG/KG	0.0001	0.0026 U	0.0065 U	0.0026 U	0.0026 U	0.00066 U	0.00065 U	0.0026 U
PCB Congener #81	MG/KG	0.0001	0.068 U	0.062 U	0.039 U	0.031 U	0.02 U	0.025 U	0.026 U

Tissue data detects only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	CR3-LMB1 11/20/2002	CR3-LMB2 11/20/2002	CR3-LMB3 11/20/2002	CR3-SBF1 11/20/2002	CR3-SBF2 11/20/2002	CR3-SBF3 12/09/2002	CR3 SBF1D 11/20/2002
PCB Congener #105	MG/KG	0.0001							
PCB Congener #114	MG/KG	0.0005							
PCB Congener #118	MG/KG	0.0001		4.200E-06	2.200E-06	1.700E-06	8.100E-07	1.400E-06	1.400E-06
PCB Congener #123	MG/KG	0.0001							
PCB Congener #126	MG/KG	0.1							
PCB Congener #156	MG/KG	0.0005	2.250E-06				6.000E-07	8.500E-07	7.000E-07
PCB Congener #157	MG/KG	0.0005							
PCB Congener #167	MG/KG	0.00001			1.500E-08		2.500E-09		1.500E-08
PCB Congener #169	MG/KG	0.01							
PCB Congener #189	MG/KG	0.0001		5.400E-08	2.600E-08				
PCB Congener #77	MG/KG	0.0001							
PCB Congener #81	MG/KG	0.0001							
Total TEQ			2.25E-06	4.25E-06	2.24E-06	1.70E-06	1.41E-06	2.25E-06	2.12E-06

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected. The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane.

Table 20. Coosa River PCB Congener Data 1/10 Detection Limit Calculations for Location Lake Weiss 1

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	0.008 N	0.0032 J	0.0017 J	0.00091 J	0.0052 J	0.0063	0.0057
PCB Congener #114	MG/KG	0.0005	0.0064 U	0.002 N	0.0016 N	0.0028 N	0.0043 N	0.0076 U	0.0076 U
PCB Congener #118	MG/KG	0.0001	0.021	0.011 JC	0.0048 JC	0.021 JC	0.037 JC	0.021	0.016
PCB Congener #123	MG/KG	0.0001	0.0039 U	0.00027 N	0.00019 N	0.00095 N	0.00025 JN	0.0039 N	0.0034 N
PCB Congener #126	MG/KG	0.1	0.004 U	0.0023 J	0.00033 N	0.004 J	0.0013 J	0.0032 U	0.0032 U
PCB Congener #156	MG/KG	0.0005	0.0025	0.0015 J	0.00009 J	0.0031 J	0.0032 J	0.0027	0.0024
PCB Congener #157	MG/KG	0.0005	0.0046 N	0.00012 J	0.00007 J	0.00065 J	0.00073 J	0.0028 N	0.0054 N
PCB Congener #167	MG/KG	0.00001	0.002 U	0.0025 N	0.0039 N	0.00011 J	0.0002 J	0.00064 J	0.00075 N
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00063 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00026 JN	0.00018 J	0.00016 J	0.00022 J	0.0002 J	0.00063 U	0.00064 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.023	0.017	0.038	0.068	0.0032 U	0.0032 U
PCB Congener #81	MG/KG	0.0001	0.046 U	0.0015 N	0.00042 N	0.0029 N	0.0072 JN	0.041 U	0.045 U

Tissue Data 1/2 of Detection Limit Calculations

PCB Congener		TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	8.0E-04 N	3.2E-03 J	1.7E-03 J	9.1E-04 J	5.2E-03 J	6.3E-03	5.7E-03
PCB Congener #114	MG/KG	0.0005	6.4E-04 U	2.0E-04 N	1.6E-04 N	2.8E-04 N	4.3E-04 N	7.6E-04 U	7.6E-04 U
PCB Congener #118	MG/KG	0.0001	2.1E-02	1.1E-02 JC	4.8E-03 JC	2.1E-02 JC	3.7E-02 JC	2.1E-02	1.6E-02
PCB Congener #123	MG/KG	0.0001	3.9E-04 U	2.7E-05 N	1.9E-05 N	9.5E-05 N	2.5E-04 JN	3.9E-04 N	3.4E-04 N
PCB Congener #126	MG/KG	0.1	4.0E-04 U	2.3E-03 J	3.3E-05 N	4.0E-03 J	1.3E-03 J	3.2E-04 U	3.2E-04 U
PCB Congener #156	MG/KG	0.0005	2.5E-03	1.5E-03 J	9.0E-05 J	3.1E-03 J	3.2E-03 J	2.7E-03	2.4E-03
PCB Congener #157	MG/KG	0.0005	4.6E-04 N	1.2E-04 J	7.0E-05 J	6.5E-04 J	7.3E-04 J	2.8E-04 N	5.4E-04 N
PCB Congener #167	MG/KG	0.00001	2.0E-04 U	2.5E-04 N	3.9E-04 N	1.1E-04 J	2.0E-04 J	6.4E-04 J	7.5E-05 N
PCB Congener #169	MG/KG	0.01	6.6E-05 U	1.3E-05 U	1.3E-05 U	1.3E-05 U	1.3E-05 U	6.3E-05 U	6.4E-05 U
PCB Congener #189	MG/KG	0.0001	2.6E-04 JN	1.8E-04 J	1.6E-04 J	2.2E-04 J	2.0E-04 J	6.3E-05 U	6.4E-05 U
PCB Congener #77	MG/KG	0.0001	6.6E-05 U	2.3E-02	1.7E-02	3.8E-02	6.8E-02	3.2E-04 U	3.2E-04 U
PCB Congener #81	MG/KG	0.0001	4.6E-03 U	1.5E-04 N	4.2E-05 N	2.9E-04 N	7.2E-03 JN	4.1E-03 U	4.5E-03 U

Tissue Data 1/2 Detection Limit TEQ Results

PCB Congener		TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	8.0E-08 N	3.2E-07 J	1.7E-07 J	9.1E-08 J	5.2E-07 J	6.3E-07	5.7E-07
PCB Congener #114	MG/KG	0.0005	3.2E-07 U	1.0E-07 N	8.0E-08 N	1.4E-07 N	2.2E-07 N	3.8E-07 U	3.8E-07 U
PCB Congener #118	MG/KG	0.0001	2.1E-06	1.1E-06 JC	4.8E-07 JC	2.1E-06 JC	3.7E-06 JC	2.1E-06	1.6E-06
PCB Congener #123	MG/KG	0.0001	3.9E-08 U	2.7E-09 N	1.9E-09 N	9.5E-09 N	2.5E-08 JN	3.9E-08 N	3.4E-08 N
PCB Congener #126	MG/KG	0.1	4.0E-05 U	2.3E-04 J	3.3E-06 N	4.0E-04 J	1.3E-04 J	3.2E-05 U	3.2E-05 U
PCB Congener #156	MG/KG	0.0005	1.3E-06	7.5E-07 J	4.5E-08 J	1.6E-06 J	1.6E-06 J	1.4E-06	1.2E-06
PCB Congener #157	MG/KG	0.0005	2.3E-07 N	6.0E-08 J	3.5E-08 J	3.3E-07 J	3.7E-07 J	1.4E-07 N	2.7E-07 N
PCB Congener #167	MG/KG	0.00001	2.0E-09 U	2.5E-09 N	3.9E-09 N	1.1E-09 J	2.0E-09 J	6.4E-09 J	7.5E-10 N
PCB Congener #169	MG/KG	0.01	6.6E-07 U	1.3E-07 U	1.3E-07 U	1.3E-07 U	1.3E-07 U	6.3E-07 U	6.4E-07 U
PCB Congener #189	MG/KG	0.0001	2.6E-08 JN	1.8E-08 J	1.6E-08 J	2.2E-08 J	2.0E-08 J	6.3E-09 U	6.4E-09 U
PCB Congener #77	MG/KG	0.0001	6.6E-09 U	2.3E-06	1.7E-06	3.8E-06	6.8E-06	3.2E-08 U	3.2E-08 U
PCB Congener #81	MG/KG	0.0001	4.6E-07 U	1.5E-08 N	4.2E-09 N	2.9E-08 N	7.2E-07 JN	4.1E-07 U	4.5E-07 U
Total TEQ			4.5E-05	2.3E-04	6.0E-06	4.1E-04	1.4E-04	3.8E-05	3.7E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected. The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS.

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane.

Table 21. Coosa River PCB Congener Data 1/2 Detection Limit Calculations for Location Lake Weiss 1

PCB Congener		EPA 823-B-00-007 TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	0.008 N	0.0032 J	0.0017 J	0.00091 J	0.0052 J	0.0063	0.0057
PCB Congener #114	MG/KG	0.0005	0.0064 U	0.002 N	0.0016 N	0.0028 N	0.0043 N	0.0076 U	0.0076 U
PCB Congener #118	MG/KG	0.0001	0.021	0.011 JC	0.0048 JC	0.021 JC	0.037 JC	0.021	0.016
PCB Congener #123	MG/KG	0.0001	0.0039 U	0.00027 N	0.00019 N	0.00095 N	0.00025 JN	0.0039 N	0.0034 N
PCB Congener #126	MG/KG	0.1	0.004 U	0.0023 J	0.00033 N	0.004 J	0.0013 J	0.0032 U	0.0032 U
PCB Congener #156	MG/KG	0.0005	0.0025	0.0015 J	0.00009 J	0.0031 J	0.0032 J	0.0027	0.0024
PCB Congener #157	MG/KG	0.0005	0.0046 N	0.00012 J	0.00007 J	0.00065 J	0.00073 J	0.0028 N	0.0054 N
PCB Congener #167	MG/KG	0.00001	0.002 U	0.0025 N	0.0039 N	0.00011 J	0.0002 J	0.00064 J	0.00075 N
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00063 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00026 JN	0.00018 J	0.00016 J	0.00022 J	0.0002 J	0.00063 U	0.00064 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.023	0.017	0.038	0.068	0.0032 U	0.0032 U
PCB Congener #81	MG/KG	0.0001	0.046 U	0.0015 N	0.00042 N	0.0029 N	0.0072 JN	0.041 U	0.045 U

Tissue Data 1/2 of Detection Limit Calculations

PCB Congener		TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	4.0E-03 N	3.2E-03 J	1.7E-03 J	9.1E-04 J	5.2E-03 J	6.3E-03	5.7E-03
PCB Congener #114	MG/KG	0.0005	3.2E-03 U	1.0E-03 N	8.0E-04 N	1.4E-03 N	2.2E-03 N	3.8E-03 U	3.8E-03 U
PCB Congener #118	MG/KG	0.0001	2.1E-02	1.1E-02 JC	4.8E-03 JC	2.1E-02 JC	3.7E-02 JC	2.1E-02	1.6E-02
PCB Congener #123	MG/KG	0.0001	2.0E-03 U	1.4E-04 N	9.5E-05 N	4.8E-04 N	2.5E-04 JN	2.0E-03 N	1.7E-03 N
PCB Congener #126	MG/KG	0.1	2.0E-03 U	2.3E-03 J	1.7E-04 N	4.0E-03 J	1.3E-03 J	1.6E-03 U	1.6E-03 U
PCB Congener #156	MG/KG	0.0005	2.5E-03	1.5E-03 J	9.0E-05 J	3.1E-03 J	3.2E-03 J	2.7E-03	2.4E-03
PCB Congener #157	MG/KG	0.0005	2.3E-03 N	1.2E-04 J	7.0E-05 J	6.5E-04 J	7.3E-04 J	1.4E-03 N	2.7E-03 N
PCB Congener #167	MG/KG	0.00001	1.0E-03 U	1.3E-03 N	2.0E-03 N	1.1E-04 J	2.0E-04 J	6.4E-04 J	3.8E-04 N
PCB Congener #169	MG/KG	0.01	3.3E-04 U	6.5E-05 U	6.5E-05 U	6.5E-05 U	6.5E-05 U	3.2E-04 U	3.2E-04 U
PCB Congener #189	MG/KG	0.0001	2.6E-04 JN	1.8E-04 J	1.6E-04 J	2.2E-04 J	2.0E-04 J	3.2E-04 U	3.2E-04 U
PCB Congener #77	MG/KG	0.0001	3.3E-04 U	2.3E-02	1.7E-02	3.8E-02	6.8E-02	1.6E-03 U	1.6E-03 U
PCB Congener #81	MG/KG	0.0001	2.3E-02 U	7.5E-04 N	2.1E-04 N	1.5E-03 N	7.2E-03 JN	2.1E-02 U	2.3E-02 U

Tissue Data 1/2 Detection Limit TEQ Results

PCB Congener		TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	4.0E-07 N	3.2E-07 J	1.7E-07 J	9.1E-08 J	5.2E-07 J	6.3E-07	5.7E-07
PCB Congener #114	MG/KG	0.0005	1.6E-06 U	5.0E-07 N	4.0E-07 N	7.0E-07 N	1.1E-06 N	1.9E-06 U	1.9E-06 U
PCB Congener #118	MG/KG	0.0001	2.1E-06	1.1E-06 JC	4.8E-07 JC	2.1E-06 JC	3.7E-06 JC	2.1E-06	1.6E-06
PCB Congener #123	MG/KG	0.0001	2.0E-07 U	1.4E-08 N	9.5E-09 N	4.8E-08 N	2.5E-08 JN	2.0E-07 N	1.7E-07 N
PCB Congener #126	MG/KG	0.1	2.0E-04 U	2.3E-04 J	1.7E-05 N	4.0E-04 J	1.3E-04 J	1.6E-04 U	1.6E-04 U
PCB Congener #156	MG/KG	0.0005	1.3E-06	7.5E-07 J	4.5E-08 J	1.6E-06 J	1.6E-06 J	1.4E-06	1.2E-06
PCB Congener #157	MG/KG	0.0005	1.2E-06 N	6.0E-08 J	3.5E-08 J	3.3E-07 J	3.7E-07 J	7.0E-07 N	1.4E-06 N
PCB Congener #167	MG/KG	0.00001	1.0E-08 U	1.3E-08 N	2.0E-08 N	1.1E-09 J	2.0E-09 J	6.4E-09 J	3.8E-09 N
PCB Congener #169	MG/KG	0.01	3.3E-06 U	6.5E-07 U	6.5E-07 U	6.5E-07 U	6.5E-07 U	3.2E-06 U	3.2E-06 U
PCB Congener #189	MG/KG	0.0001	2.6E-08 JN	1.8E-08 J	1.6E-08 J	2.2E-08 J	2.0E-08 J	3.2E-08 U	3.2E-08 U
PCB Congener #77	MG/KG	0.0001	3.3E-08 U	2.3E-06	1.7E-06	3.8E-06	6.8E-06	1.6E-07 U	1.6E-07 U
PCB Congener #81	MG/KG	0.0001	2.3E-06 U	7.5E-08 N	2.1E-08 N	1.5E-07 N	7.2E-07 JN	2.1E-06 U	2.3E-06 U
Total TEQ			2.1E-04	2.4E-04	2.0E-05	4.1E-04	1.5E-04	1.7E-04	1.7E-04

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected. The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS.

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane..

Table 22. Coosa River Fish Tissue PCB Congener Data Detects Only Calculations for Location Lake Weiss 1

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	0.008 N	0.0032 J	0.0017 J	0.00091 J	0.0052 J	0.0063	0.0057
PCB Congener #114	MG/KG	0.0005	0.0064 U	0.002 N	0.0016 N	0.0028 N	0.0043 N	0.0076 U	0.0076 U
PCB Congener #118	MG/KG	0.0001	0.021	0.011 JC	0.0048 JC	0.021 JC	0.037 JC	0.021	0.016
PCB Congener #123	MG/KG	0.0001	0.0039 U	0.00027 N	0.00019 N	0.00095 N	0.00025 JN	0.0039 N	0.0034 N
PCB Congener #126	MG/KG	0.1	0.004 U	0.0023 J	0.00033 N	0.004 J	0.0013 J	0.0032 U	0.0032 U
PCB Congener #156	MG/KG	0.0005	0.0025	0.0015 J	0.00009 J	0.0031 J	0.0032 J	0.0027	0.0024
PCB Congener #157	MG/KG	0.0005	0.0046 N	0.00012 J	0.00007 J	0.00065 J	0.00073 J	0.0028 N	0.0054 N
PCB Congener #167	MG/KG	0.00001	0.002 U	0.0025 N	0.0039 N	0.00011 J	0.0002 J	0.00064 J	0.00075 N
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00013 U	0.00013 U	0.00013 U	0.00013 U	0.00063 U	0.00064 U
PCB Congener #189	MG/KG	0.0001	0.00026 JN	0.00018 J	0.00016 J	0.00022 J	0.0002 J	0.00063 U	0.00064 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.023	0.017	0.038	0.068	0.0032 U	0.0032 U
PCB Congener #81	MG/KG	0.0001	0.046 U	0.0015 N	0.00042 N	0.0029 N	0.0072 JN	0.041 U	0.045 U

Tissue Data Detects Only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	LW1 LMB2D 11/19/2002	LW1LMB1 11/19/2002	LW1LMB2 11/19/2002	LW1LMB3 11/19/2002	LW1SBF1 12/11/2002	LW1SBF2 12/11/2002	LW1SBF3 12/11/2002
PCB Congener #105	MG/KG	0.0001	N	3.200E-07 J	1.700E-07 J	9.100E-08 J	5.200E-07 J	6.300E-07	5.700E-07
PCB Congener #114	MG/KG	0.0005	U	N	N	N	N	U	U
PCB Congener #118	MG/KG	0.0001	2.100E-06	1.100E-06 JC	4.800E-07 JC	2.100E-06 JC	3.700E-06 JC	2.100E-06	1.600E-06
PCB Congener #123	MG/KG	0.0001	U	N	N	N	JN	N	N
PCB Congener #126	MG/KG	0.1	U	2.300E-04 J	N	4.000E-04 J	1.300E-04 J	U	U
PCB Congener #156	MG/KG	0.0005	1.250E-06	7.500E-07 J	4.500E-08 J	1.550E-06 J	1.600E-06 J	1.350E-06	1.200E-06
PCB Congener #157	MG/KG	0.0005	N	6.000E-08 J	3.500E-08 J	3.250E-07 J	3.650E-07 J	N	N
PCB Congener #167	MG/KG	0.00001	U	N	N	1.100E-09 J	2.000E-09 J	6.400E-09 J	N
PCB Congener #169	MG/KG	0.01	U	U	U	U	U	U	U
PCB Congener #189	MG/KG	0.0001	JN	1.800E-08 J	1.600E-08 J	2.200E-08 J	2.000E-08 J	U	U
PCB Congener #77	MG/KG	0.0001	U	2.300E-06	1.700E-06	3.800E-06	6.800E-06	U	U
PCB Congener #81	MG/KG	0.0001	U	N	N	N	JN	U	U
Total TEQ			3.35E-06	2.35E-04	2.45E-06	4.08E-04	1.43E-04	4.09E-06	3.37E-06

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2 1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given.

L-Actual value is known to be greater than value given.

U-Material was analyzed for but not detected The number is the minimum quantitation limit.

R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.

C-Confirmed by GCMS.

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane.

Table 23. Coosa River PCB Congener Data 1/10 Detection Limit Calculations for Location Lake Weiss 2

Tissue Data		EPA 823-B-00-007	LW2-BCF1	LW2-LMB1	LW2-LMB2	LW2-LMB3	LW2-SBF1	LW2-SBF2	LW2-SBF3	LW2 SBF3D
PCB Congener		TEFs	11/19/2002	11/19/2002	11/19/2002	11/19/2002	12/10/2002	12/10/2002	12/10/2002	12/10/2002
PCB Congener #105	MG/KG	0.0001	0.0062 N	0.008	0.0059	0.0059	0.035	0.0015	0.018	0.018
PCB Congener #114	MG/KG	0.0005	0.0045 U	0.0062 U	0.0045 U	0.0048 U	0.01 U	0.0014 U	0.034 U	0.034 U
PCB Congener #118	MG/KG	0.0001	0.02	0.02	0.016	0.017	0.095 C	0.0024	0.074 C	0.067 C
PCB Congener #123	MG/KG	0.0001	0.0042 U	0.0025 N	0.0026 U	0.0032 U	0.0087 N	0.0014 U	0.0087 N	0.0098 U
PCB Congener #126	MG/KG	0.1	0.0025 U	0.0066 U	0.0013 U	0.0013 U	0.004 U	0.00065 U	0.013 U	0.013 U
PCB Congener #156	MG/KG	0.0005	0.0017 J	0.0031	0.0017	0.0022	0.042	0.00089 J	0.0065	0.0053 N
PCB Congener #157	MG/KG	0.0005	0.0016 N	0.005 N	0.0029 N	0.0031 N	0.005 N	0.0016 U	0.0092 N	0.0088 N
PCB Congener #167	MG/KG	0.00001	0.00069 J	0.00069 J	0.00042 J	0.00028 J	0.0099 J	0.00059 J	0.0023 J	0.0025 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00066 U	0.00066 U	0.00065 U	0.00065 U	0.00065 U	0.00076 U	0.00074 U
PCB Congener #189	MG/KG	0.0001	0.00075 U	0.00066 U	0.00066 U	0.00066 U	0.0024 U	0.00076 U	0.001 U	0.001 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.0013 U	0.0033 U	0.0033 U	0.0013 U	0.00065 U	0.013 U	0.013 U
PCB Congener #81	MG/KG	0.0001	0.035 U	0.044 U	0.016 U	0.028 U	0.023 U	0.0049 U	0.13 U	0.13 U

Tissue Data 1/10 of Detection Limit Calculations

PCB Congener		TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	6.2E-04 N	8.0E-03	5.9E-03	5.9E-03	3.5E-02	1.5E-03	1.8E-02	1.8E-02
PCB Congener #114	MG/KG	0.0005	4.5E-04 U	6.2E-04 U	4.5E-04 U	4.8E-04 U	1.0E-03 U	1.4E-04 U	3.4E-03 U	3.4E-03 U
PCB Congener #118	MG/KG	0.0001	2.0E-02	2.0E-02	1.6E-02	1.7E-02	9.5E-02 C	2.4E-03	7.4E-02 C	6.7E-02 C
PCB Congener #123	MG/KG	0.0001	4.2E-04 U	2.5E-04 N	2.6E-04 U	3.2E-04 U	8.7E-04 N	1.4E-04 U	8.7E-04 N	9.8E-04 U
PCB Congener #126	MG/KG	0.1	2.5E-04 U	6.6E-04 U	1.3E-04 U	1.3E-04 U	4.0E-04 U	6.5E-05 U	1.3E-03 U	1.3E-03 U
PCB Congener #156	MG/KG	0.0005	1.7E-03 J	3.1E-03	1.7E-03	2.2E-03	4.2E-02	8.9E-04 J	6.5E-03	5.3E-04 N
PCB Congener #157	MG/KG	0.0005	1.6E-04 N	5.0E-04 N	2.9E-04 N	3.1E-04 N	5.0E-04 N	1.6E-04 U	9.2E-04 N	8.8E-04 N
PCB Congener #167	MG/KG	0.00001	6.9E-04 J	6.9E-04 J	4.2E-04 J	2.8E-04 J	9.9E-03 J	5.9E-04 J	2.3E-03 J	2.5E-03 J
PCB Congener #169	MG/KG	0.01	6.6E-05 U	6.6E-05 U	6.6E-05 U	6.5E-05 U	6.5E-05 U	6.5E-05 U	7.6E-05 U	7.4E-05 U
PCB Congener #189	MG/KG	0.0001	7.5E-05 U	6.6E-05 U	6.6E-05 U	6.6E-05 U	2.4E-04 U	7.6E-05 U	1.0E-04 U	1.0E-04 U
PCB Congener #77	MG/KG	0.0001	6.6E-05 U	1.3E-04 U	3.3E-04 U	3.3E-04 U	1.3E-04 U	6.5E-05 U	1.3E-03 U	1.3E-03 U
PCB Congener #81	MG/KG	0.0001	3.5E-03 U	4.4E-03 U	1.6E-03 U	2.8E-03 U	2.3E-03 U	4.9E-04 U	1.3E-02 U	1.3E-02 U

Tissue Data 1/10 Detection Limit TEQ Results

PCB Congener		TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	6.2E-08 N	8.0E-07	5.9E-07	5.9E-07	3.5E-06	1.5E-07	1.8E-06	1.8E-06
PCB Congener #114	MG/KG	0.0005	2.3E-07 U	3.1E-07 U	2.3E-07 U	2.4E-07 U	5.0E-07 U	7.0E-08 U	1.7E-06 U	1.7E-06 U
PCB Congener #118	MG/KG	0.0001	2.0E-06	2.0E-06	1.6E-06	1.7E-06	9.5E-06 C	2.4E-07	7.4E-06 C	6.7E-06 C
PCB Congener #123	MG/KG	0.0001	4.2E-08 U	2.5E-08 N	2.6E-08 U	3.2E-08 U	8.7E-08 N	1.4E-08 U	8.7E-08 N	9.8E-08 U
PCB Congener #126	MG/KG	0.1	2.5E-05 U	6.6E-05 U	1.3E-05 U	1.3E-05 U	4.0E-05 U	6.5E-06 U	1.3E-04 U	1.3E-04 U
PCB Congener #156	MG/KG	0.0005	8.5E-07 J	1.6E-06	8.5E-07	1.1E-06	2.1E-05	4.5E-07 J	3.3E-06	2.7E-07 N
PCB Congener #157	MG/KG	0.0005	8.0E-08 N	2.5E-07 N	1.5E-07 N	1.6E-07 N	2.5E-07 N	8.0E-08 U	4.6E-07 N	4.4E-07 N
PCB Congener #167	MG/KG	0.00001	6.9E-09 J	6.9E-09 J	4.2E-09 J	2.8E-09 J	9.9E-08 J	5.9E-09 J	2.3E-08 J	2.5E-08 J
PCB Congener #169	MG/KG	0.01	6.6E-07 U	6.6E-07 U	6.6E-07 U	6.5E-07 U	6.5E-07 U	6.5E-07 U	7.6E-07 U	7.4E-07 U
PCB Congener #189	MG/KG	0.0001	7.5E-09 U	6.6E-09 U	6.6E-09 U	6.6E-09 U	2.4E-08 U	7.6E-09 U	1.0E-08 U	1.0E-08 U
PCB Congener #77	MG/KG	0.0001	6.6E-09 U	1.3E-08 U	3.3E-08 U	3.3E-08 U	1.3E-08 U	6.5E-09 U	1.3E-07 U	1.3E-07 U
PCB Congener #81	MG/KG	0.0001	3.5E-07 U	4.4E-07 U	1.6E-07 U	2.8E-07 U	2.3E-07 U	4.9E-08 U	1.3E-06 U	1.3E-06 U
Total TEQ			2.9E-05	7.2E-05	1.7E-05	1.8E-05	7.6E-05	8.2E-06	1.5E-04	1.4E-04

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 24 Coosa River PCB Congener Data 1/2 Detection Limit Calculations for Location Lake Weiss 2

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	0.0062 N	0.008	0.0059	0.0059	0.035	0.0015	0.018	0.018
PCB Congener #114	MG/KG	0.0005	0.0045 U	0.0062 U	0.0045 U	0.0048 U	0.01 U	0.0014 U	0.034 U	0.034 U
PCB Congener #118	MG/KG	0.0001	0.02	0.02	0.016	0.017	0.095 C	0.0024	0.074 C	0.067 C
PCB Congener #123	MG/KG	0.0001	0.0042 U	0.0025 N	0.0026 U	0.0032 U	0.0087 N	0.0014 U	0.0087 N	0.0098 U
PCB Congener #126	MG/KG	0.1	0.0025 U	0.0066 U	0.0013 U	0.0013 U	0.004 U	0.00065 U	0.013 U	0.013 U
PCB Congener #156	MG/KG	0.0005	0.0017 J	0.0031	0.0017	0.0022	0.042	0.00089 J	0.0065	0.0053 N
PCB Congener #157	MG/KG	0.0005	0.0016 N	0.005 N	0.0029 N	0.0031 N	0.005 N	0.0016 U	0.0092 N	0.0088 N
PCB Congener #167	MG/KG	0.00001	0.00069 J	0.00069 J	0.00042 J	0.00028 J	0.0099 J	0.00059 J	0.0023 J	0.0025 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00066 U	0.00066 U	0.00065 U	0.00065 U	0.00065 U	0.00076 U	0.00074 U
PCB Congener #189	MG/KG	0.0001	0.00075 U	0.00066 U	0.00066 U	0.00066 U	0.0024 U	0.00076 U	0.001 U	0.001 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.0013 U	0.0033 U	0.0033 U	0.0013 U	0.00065 U	0.013 U	0.013 U
PCB Congener #81	MG/KG	0.0001	0.035 U	0.044 U	0.016 U	0.028 U	0.023 U	0.0049 U	0.13 U	0.13 U

Tissue Data 1/2 of Detection Limit Calculations

PCB Congener		TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	3.1E-03 N	6.0E-03	5.9E-03	5.9E-03	3.5E-02	1.5E-03	1.8E-02	1.8E-02
PCB Congener #114	MG/KG	0.0005	2.3E-03 U	3.1E-03 U	2.3E-03 U	2.4E-03 U	5.0E-03 U	7.0E-04 U	1.7E-02 U	1.7E-02 U
PCB Congener #118	MG/KG	0.0001	2.0E-02	2.0E-02	1.6E-02	1.7E-02	9.5E-02 C	2.4E-03	7.4E-02 C	6.7E-02 C
PCB Congener #123	MG/KG	0.0001	2.1E-03 U	1.3E-03 N	1.3E-03 U	1.6E-03 U	4.4E-03 N	7.0E-04 U	4.4E-03 N	4.9E-03 U
PCB Congener #126	MG/KG	0.1	1.3E-03 U	3.3E-03 U	6.5E-04 U	6.5E-04 U	2.0E-03 U	3.3E-04 U	6.5E-03 U	6.5E-03 U
PCB Congener #156	MG/KG	0.0005	1.7E-03 J	3.1E-03	1.7E-03	2.2E-03	4.2E-02	8.9E-04 J	6.5E-03	2.7E-03 N
PCB Congener #157	MG/KG	0.0005	8.0E-04 N	2.5E-03 N	1.5E-03 N	1.6E-03 N	2.5E-03 N	8.0E-04 U	4.6E-03 N	4.4E-03 N
PCB Congener #167	MG/KG	0.00001	6.9E-04 J	6.9E-04 J	4.2E-04 J	2.8E-04 J	9.9E-03 J	5.9E-04 J	2.3E-03 J	2.5E-03 J
PCB Congener #169	MG/KG	0.01	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.8E-04 U	3.7E-04 U
PCB Congener #189	MG/KG	0.0001	3.8E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	1.2E-03 U	3.8E-04 U	5.0E-04 U	5.0E-04 U
PCB Congener #77	MG/KG	0.0001	3.3E-04 U	6.5E-04 U	1.7E-03 U	1.7E-03 U	6.5E-04 U	3.3E-04 U	6.5E-03 U	6.5E-03 U
PCB Congener #81	MG/KG	0.0001	1.8E-02 U	2.2E-02 U	8.0E-03 U	1.4E-02 U	1.2E-02 U	2.5E-03 U	6.5E-02 U	6.5E-02 U

Tissue Data 1/2 Detection Limit TEQ Results

PCB Congener		TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	3.1E-07 N	6.0E-07	5.9E-07	5.9E-07	3.5E-06	1.5E-07	1.8E-06	1.8E-06
PCB Congener #114	MG/KG	0.0005	1.1E-06 U	1.6E-06 U	1.1E-06 U	1.2E-06 U	2.5E-06 U	3.5E-07 U	8.5E-06 U	8.5E-06 U
PCB Congener #118	MG/KG	0.0001	2.0E-06	2.0E-06	1.6E-06	1.7E-06	9.5E-06 C	2.4E-07	7.4E-06 C	6.7E-06 C
PCB Congener #123	MG/KG	0.0001	2.1E-07 U	1.3E-07 N	1.3E-07 U	1.6E-07 U	4.4E-07 N	7.0E-08 U	4.4E-07 N	4.9E-07 U
PCB Congener #126	MG/KG	0.1	1.3E-04 U	3.3E-04 U	6.5E-05 U	6.5E-05 U	2.0E-04 U	3.3E-05 U	6.5E-04 U	6.5E-04 U
PCB Congener #156	MG/KG	0.0005	8.5E-07 J	1.6E-06	8.5E-07	1.1E-06	2.1E-05	4.5E-07 J	3.3E-06	1.3E-06 N
PCB Congener #157	MG/KG	0.0005	4.0E-07 N	1.3E-06 N	7.3E-07 N	7.8E-07 N	1.3E-06 N	4.0E-07 U	2.3E-06 N	2.2E-06 N
PCB Congener #167	MG/KG	0.00001	6.9E-09 J	6.9E-09 J	4.2E-09 J	2.8E-09 J	9.9E-08 J	5.9E-09 J	2.3E-08 J	2.5E-08 J
PCB Congener #169	MG/KG	0.01	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.8E-06 U	3.7E-06 U
PCB Congener #189	MG/KG	0.0001	3.8E-08 U	3.3E-08 U	3.3E-08 U	3.3E-08 U	1.2E-07 U	3.8E-08 U	5.0E-08 U	5.0E-08 U
PCB Congener #77	MG/KG	0.0001	3.3E-08 U	6.5E-08 U	1.7E-07 U	1.7E-07 U	6.5E-08 U	3.3E-08 U	6.5E-07 U	6.5E-07 U
PCB Congener #81	MG/KG	0.0001	1.8E-06 U	2.2E-06 U	8.0E-07 U	1.4E-06 U	1.2E-06 U	2.5E-07 U	6.5E-06 U	6.5E-06 U
Total TEQ			1.4E-04	3.4E-04	7.4E-05	7.5E-05	2.4E-04	3.8E-05	6.8E-04	6.8E-04

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 25. Coosa River Fish Tissue PCB Congener Data Detects Only Calculations for Location Lake Weiss 2

PCB Congener		EPA 823-B-00-007 TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2 SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	0.0062 N	0.006	0.0059	0.0059	0.035	0.0015	0.018	0.018
PCB Congener #114	MG/KG	0.0005	0.0045 U	0.0062 U	0.0045 U	0.0048 U	0.01 U	0.0014 U	0.034 U	0.034 U
PCB Congener #118	MG/KG	0.0001	0.02	0.02	0.016	0.017	0.095 C	0.0024	0.074 C	0.067 C
PCB Congener #123	MG/KG	0.0001	0.0042 U	0.0025 N	0.0026 U	0.0032 U	0.0087 N	0.0014 U	0.0067 N	0.0098 U
PCB Congener #126	MG/KG	0.1	0.0025 U	0.0066 U	0.0013 U	0.0013 U	0.004 U	0.00065 U	0.013 U	0.013 U
PCB Congener #156	MG/KG	0.0005	0.0017 J	0.0031	0.0017	0.0022	0.042	0.00069 J	0.0065	0.0053 N
PCB Congener #157	MG/KG	0.0005	0.0016 N	0.005 N	0.0029 N	0.0031 N	0.005 N	0.0016 U	0.0092 N	0.0068 N
PCB Congener #167	MG/KG	0.00001	0.00069 J	0.00069 J	0.00042 J	0.00028 J	0.0099 J	0.00059 J	0.0023 J	0.0025 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00066 U	0.00066 U	0.00065 U	0.00065 U	0.00065 U	0.00076 U	0.00074 U
PCB Congener #189	MG/KG	0.0001	0.00075 U	0.00066 U	0.00066 U	0.00066 U	0.0024 U	0.00076 U	0.001 U	0.001 U
PCB Congener #77	MG/KG	0.0001	0.00066 U	0.0013 U	0.0033 U	0.0033 U	0.0013 U	0.00065 U	0.013 U	0.013 U
PCB Congener #81	MG/KG	0.0001	0.035 U	0.044 U	0.016 U	0.028 U	0.023 U	0.0049 U	0.13 U	0.13 U

Tissue data detects only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	LW2-BCF1 11/19/2002	LW2-LMB1 11/19/2002	LW2-LMB2 11/19/2002	LW2-LMB3 11/19/2002	LW2-SBF1 12/10/2002	LW2-SBF2 12/10/2002	LW2-SBF3 12/10/2002	LW2-SBF3D 12/10/2002
PCB Congener #105	MG/KG	0.0001	N	6.000E-07	5.900E-07	5.900E-07	3.500E-06	1.500E-07	1.800E-06	1.800E-06
PCB Congener #114	MG/KG	0.0005	U	U	U	U	U	U	U	U
PCB Congener #118	MG/KG	0.0001	2.000E-06	2.000E-06	1.600E-06	1.700E-06	9.500E-06 C	2.400E-07	7.400E-06 C	6.700E-06 C
PCB Congener #123	MG/KG	0.0001	U	N	U	U	N	U	N	U
PCB Congener #126	MG/KG	0.1	U	U	U	U	U	U	U	U
PCB Congener #156	MG/KG	0.0005	8.500E-07 J	1.550E-06	8.500E-07	1.100E-06	2.100E-05	4.450E-07 J	3.250E-06	N
PCB Congener #157	MG/KG	0.0005	N	N	N	N	N	U	N	N
PCB Congener #167	MG/KG	0.00001	6.900E-09 J	6.900E-09 J	4.200E-09 J	2.800E-09 J	9.900E-08 J	5.900E-09 J	2.300E-08 J	2.500E-08 J
PCB Congener #169	MG/KG	0.01	U	U	U	U	U	U	U	U
PCB Congener #189	MG/KG	0.0001	U	U	U	U	U	U	U	U
PCB Congener #77	MG/KG	0.0001	U	U	U	U	U	U	U	U
PCB Congener #81	MG/KG	0.0001	U	U	U	U	U	U	U	U
Total TEQ			2.86E-06	4.36E-06	3.04E-06	3.39E-06	3.41E-05	8.41E-07	1.25E-05	8.53E-06

USEPA Screening Value, Frist Tier	2.1E-06
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2 Constituents or metabolites of technical chlordane.

Table 26. Coosa River PCB Congener Data 1/10 Detection Limit Calculations for Location Upper Neely-Henry

PCB Congener		EPA 823-B-00-007 TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	0.0072	0.0048	0.0042	0.033	0.017	0.0079	0.016 N
PCB Congener #114	MG/KG	0.0005	0.005 U	0.0068 U	0.0046 U	0.047 U	0.027 U	0.0068 U	0.032 U
PCB Congener #118	MG/KG	0.0001	0.02	0.018	0.016	0.11	0.077	0.032	0.069
PCB Congener #123	MG/KG	0.0001	0.0034 U	0.0032 N	0.0023 N	0.014 N	0.0067 JN	0.0048 N	0.017 U
PCB Congener #126	MG/KG	0.1	0.0013 U	0.0013.U	0.001 U	0.013 U	0.013 U	0.0064 U	0.0043 U
PCB Congener #156	MG/KG	0.0005	0.0023	0.0024	0.0018	0.01	0.0084	0.0031	0.009
PCB Congener #157	MG/KG	0.0005	0.0033 N	0.003 N	0.0022 N	0.011 N	0.0068 N	0.0045 N	0.013 N
PCB Congener #167	MG/KG	0.00001	0.0024 J	0.00063 J	0.00034 J	0.005 J	0.0036 J	0.0012 J	0.0037 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00064 U	0.00066 U	0.00066 U	0.00066 U	0.00064 U	0.00093 U
PCB Congener #189	MG/KG	0.0001	0.00066 U	0.00064 U	0.00066 U	0.0015 U	0.00093 N	0.0002 N	0.00084 N
PCB Congener #77	MG/KG	0.0001	0.0033 U	0.0026 U	0.0026 U	0.013 U	0.013 U	0.0064 U	0.012 U
PCB Congener #81	MG/KG	0.0001	0.026 U	0.025 U	0.035 U	0.18 U	0.092 U	0.061 U	0.11 U

Tissue Data 1/10 of Non-detect Calculations

PCB Congener		TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.2E-03	4.8E-03	4.2E-03	3.3E-02	1.7E-02	7.9E-03	1.6E-03 N
PCB Congener #114	MG/KG	0.0005	5.0E-04 U	6.8E-04 U	4.6E-04 U	4.7E-03 U	2.7E-03 U	6.8E-04 U	3.2E-03 U
PCB Congener #118	MG/KG	0.0001	2.0E-02	1.8E-02	1.6E-02	1.1E-01	7.7E-02	3.2E-02	6.9E-02
PCB Congener #123	MG/KG	0.0001	3.4E-04 U	3.2E-04 N	2.3E-04 N	1.4E-03 N	6.7E-04 JN	4.8E-04 N	1.7E-03 U
PCB Congener #126	MG/KG	0.1	1.3E-04 U	1.3E-04 U	1.0E-04 U	1.3E-03 U	1.3E-03 U	6.4E-04 U	4.3E-04 U
PCB Congener #156	MG/KG	0.0005	2.3E-03	2.4E-03	1.8E-03	1.0E-02	8.4E-03	3.1E-03	9.0E-03
PCB Congener #157	MG/KG	0.0005	3.3E-04 N	3.0E-04 N	2.2E-04 N	1.1E-03 N	6.8E-04 N	4.5E-04 N	1.3E-03 N
PCB Congener #167	MG/KG	0.00001	2.4E-03 J	6.3E-04 J	3.4E-04 J	5.0E-03 J	3.6E-03 J	1.2E-03 J	3.7E-03 J
PCB Congener #169	MG/KG	0.01	6.6E-05 U	6.4E-05 U	6.6E-05 U	6.6E-05 U	6.6E-05 U	6.4E-05 U	9.3E-05 U
PCB Congener #189	MG/KG	0.0001	6.6E-05 U	6.4E-05 U	6.6E-05 U	1.5E-04 U	9.3E-05 N	2.0E-05 N	8.4E-05 N
PCB Congener #77	MG/KG	0.0001	3.3E-04 U	2.6E-04 U	2.6E-04 U	1.3E-03 U	1.3E-03 U	6.4E-04 U	1.2E-03 U
PCB Congener #81	MG/KG	0.0001	2.6E-03 U	2.5E-03 U	3.5E-03 U	1.8E-02 U	9.2E-03 U	6.1E-03 U	1.1E-02 U

Tissue Data 1/10 of Non-detect Results

PCB Congener		TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.2E-07	4.8E-07	4.2E-07	3.3E-06	1.7E-06	7.9E-07	1.6E-07 N
PCB Congener #114	MG/KG	0.0005	2.5E-07 U	3.4E-07 U	2.3E-07 U	2.4E-06 U	1.4E-06 U	4.4E-07 U	1.6E-06 U
PCB Congener #118	MG/KG	0.0001	2.0E-06	1.8E-06	1.6E-06	1.1E-05	7.7E-06	3.2E-06	6.9E-06
PCB Congener #123	MG/KG	0.0001	3.4E-08 U	3.2E-08 N	2.3E-08 N	1.4E-07 N	6.7E-08 JN	4.8E-08 N	1.7E-07 U
PCB Congener #126	MG/KG	0.1	1.3E-05 U	1.3E-05 U	1.0E-05 U	1.3E-04 U	1.3E-04 U	6.4E-05 U	4.3E-05 U
PCB Congener #156	MG/KG	0.0005	1.2E-06	1.2E-06	9.0E-07	5.0E-06	4.2E-06	1.6E-06	4.5E-06
PCB Congener #157	MG/KG	0.0005	1.7E-07 N	1.5E-07 N	1.1E-07 N	5.5E-07 N	3.4E-07 N	2.3E-07 N	6.5E-07 N
PCB Congener #167	MG/KG	0.00001	2.4E-08 J	6.3E-09 J	3.4E-09 J	5.0E-08 J	3.6E-08 J	1.2E-08 J	3.7E-08 J
PCB Congener #169	MG/KG	0.01	6.6E-07 U	6.4E-07 U	6.6E-07 U	6.6E-07 U	6.6E-07 U	6.4E-07 U	9.3E-07 U
PCB Congener #189	MG/KG	0.0001	6.6E-09 U	6.4E-09 U	6.6E-09 U	1.5E-08 U	9.3E-09 N	2.0E-09 N	8.4E-09 N
PCB Congener #77	MG/KG	0.0001	3.3E-08 U	2.6E-08 U	2.6E-08 U	1.3E-07 U	1.3E-07 U	6.4E-08 U	1.2E-07 U
PCB Congener #81	MG/KG	0.0001	2.6E-07 U	2.5E-07 U	3.5E-07 U	1.8E-06 U	9.2E-07 U	6.1E-07 U	1.1E-06 U
Total TEQ			1.8E-05	1.8E-05	1.4E-05	1.5E-04	1.5E-04	7.2E-05	5.9E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 27. Coosa River PCB Congener Data 1/2 Detection Limit Calculations for Location Upper Neely-Henry

PCB Congener		EPA 823-B-00-007 TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	0.0072	0.0048	0.0042	0.033	0.017	0.0079	0.016 N
PCB Congener #114	MG/KG	0.0005	0.005 U	0.0068 U	0.0046 U	0.047 U	0.027 U	0.0088 U	0.032 U
PCB Congener #118	MG/KG	0.0001	0.02	0.018	0.016	0.11	0.077	0.032	0.069
PCB Congener #123	MG/KG	0.0001	0.0034 U	0.0032 N	0.0023 N	0.014 N	0.0067 JN	0.0048 N	0.017 U
PCB Congener #126	MG/KG	0.1	0.0013 U	0.0013 U	0.001 U	0.013 U	0.013 U	0.0064 U	0.0043 U
PCB Congener #156	MG/KG	0.0005	0.0023	0.0024	0.0018	0.01	0.0084	0.0031	0.009
PCB Congener #157	MG/KG	0.0005	0.0033 N	0.003 N	0.0022 N	0.011 N	0.0068 N	0.0045 N	0.013 N
PCB Congener #167	MG/KG	0.00001	0.0024 J	0.00063 J	0.00034 J	0.005 J	0.0036 J	0.0012 J	0.0037 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00064 U	0.00066 U	0.00066 U	0.00066 U	0.00064 U	0.00093 U
PCB Congener #189	MG/KG	0.0001	0.00066 U	0.00064 U	0.00066 U	0.0015 U	0.00093 N	0.0002 N	0.00084 N
PCB Congener #77	MG/KG	0.0001	0.0033 U	0.0026 U	0.0026 U	0.013 U	0.013 U	0.0064 U	0.012 U
PCB Congener #81	MG/KG	0.0001	0.026 U	0.025 U	0.035 U	0.18 U	0.092 U	0.061 U	0.11 U

Tissue 1/2 of Non-detect Calculations

PCB Congener		TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.2E-03	4.8E-03	4.2E-03	3.3E-02	1.7E-02	7.9E-03	8.0E-03 N
PCB Congener #114	MG/KG	0.0005	2.5E-03 U	3.4E-03 U	2.3E-03 U	2.4E-02 U	1.4E-02 U	4.4E-03 U	1.6E-02 U
PCB Congener #118	MG/KG	0.0001	2.0E-02	1.8E-02	1.6E-02	1.1E-01	7.7E-02	3.2E-02	6.9E-02
PCB Congener #123	MG/KG	0.0001	1.7E-03 U	1.6E-03 N	1.2E-03 N	7.0E-03 N	3.4E-03 JN	2.4E-03 N	8.5E-03 U
PCB Congener #126	MG/KG	0.1	6.5E-04 U	6.5E-04 U	5.0E-04 U	6.5E-03 U	6.5E-03 U	3.2E-03 U	2.2E-03 U
PCB Congener #156	MG/KG	0.0005	2.3E-03	2.4E-03	1.8E-03	1.0E-02	8.4E-03	3.1E-03	9.0E-03
PCB Congener #157	MG/KG	0.0005	1.7E-03 N	1.5E-03 N	1.1E-03 N	5.5E-03 N	3.4E-03 N	2.3E-03 N	6.5E-03 N
PCB Congener #167	MG/KG	0.00001	2.4E-03 J	6.3E-04 J	3.4E-04 J	5.0E-03 J	3.6E-03 J	1.2E-03 J	3.7E-03 J
PCB Congener #169	MG/KG	0.01	3.3E-04 U	3.2E-04 U	3.3E-04 U	3.3E-04 U	3.3E-04 U	3.2E-04 U	4.7E-04 U
PCB Congener #189	MG/KG	0.0001	3.3E-04 U	3.2E-04 U	3.3E-04 U	7.5E-04 U	4.7E-04 N	1.0E-04 N	4.2E-04 N
PCB Congener #77	MG/KG	0.0001	1.7E-03 U	1.3E-03 U	1.3E-03 U	6.5E-03 U	6.5E-03 U	3.2E-03 U	6.0E-03 U
PCB Congener #81	MG/KG	0.0001	1.3E-02 U	1.3E-02 U	1.8E-02 U	9.0E-02 U	4.6E-02 U	3.1E-02 U	5.5E-02 U

Tissue 1/2 of Non-detect Results

PCB Congener		TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.2E-07	4.8E-07	4.2E-07	3.3E-06	1.7E-06	7.9E-07	8.0E-07 N
PCB Congener #114	MG/KG	0.0005	1.3E-06 U	1.7E-06 U	1.2E-06 U	1.2E-05 U	6.8E-06 U	2.2E-06 U	8.0E-06 U
PCB Congener #118	MG/KG	0.0001	2.0E-06	1.8E-06	1.6E-06	1.1E-05	7.7E-06	3.2E-06	6.9E-06
PCB Congener #123	MG/KG	0.0001	1.7E-07 U	1.6E-07 N	1.2E-07 N	7.0E-07 N	3.4E-07 JN	2.4E-07 N	8.5E-07 U
PCB Congener #126	MG/KG	0.1	6.5E-05 U	6.5E-05 U	5.0E-05 U	6.5E-04 U	6.5E-04 U	3.2E-04 U	2.2E-04 U
PCB Congener #156	MG/KG	0.0005	1.2E-06	1.2E-06	9.0E-07	5.0E-06	4.2E-06	1.6E-06	4.5E-06
PCB Congener #157	MG/KG	0.0005	8.3E-07 N	7.5E-07 N	5.5E-07 N	2.8E-06 N	1.7E-06 N	1.1E-06 N	3.3E-06 N
PCB Congener #167	MG/KG	0.00001	2.4E-08 J	6.3E-09 J	3.4E-09 J	5.0E-08 J	3.6E-08 J	1.2E-08 J	3.7E-08 J
PCB Congener #169	MG/KG	0.01	3.3E-06 U	3.2E-06 U	3.3E-06 U	3.3E-06 U	3.3E-06 U	3.2E-06 U	4.7E-06 U
PCB Congener #189	MG/KG	0.0001	3.3E-08 U	3.2E-08 U	3.3E-08 U	7.5E-08 U	4.7E-08 N	1.0E-08 N	4.2E-08 N
PCB Congener #77	MG/KG	0.0001	1.7E-07 U	1.3E-07 U	1.3E-07 U	6.5E-07 U	6.5E-07 U	3.2E-07 U	6.0E-07 U
PCB Congener #81	MG/KG	0.0001	1.3E-06 U	1.3E-06 U	1.8E-06 U	9.0E-06 U	4.6E-06 U	3.1E-06 U	5.5E-06 U
Total TEQ			7.6E-05	7.6E-05	6.0E-05	7.0E-04	6.8E-04	3.4E-04	2.5E-04

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 28. Coosa River Fish Tissue PCB Congener Data fDetects Only Calculations for Location Upper Neely-Henry

PCB Congener		EPA 823-B-00-007 TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	0.0072	0.0048	0.0042	0.033	0.017	0.0079	0.016 N
PCB Congener #114	MG/KG	0.0005	0.005 U	0.0068 U	0.0046 U	0.047 U	0.027 U	0.0088 U	0.032 U
PCB Congener #118	MG/KG	0.0001	0.02	0.018	0.016	0.11	0.077	0.032	0.069
PCB Congener #123	MG/KG	0.0001	0.0034 U	0.0032 N	0.0023 N	0.014 N	0.0067 JN	0.0048 N	0.017 U
PCB Congener #126	MG/KG	0.1	0.0013 U	0.0013 U	0.001 U	0.013 U	0.013 U	0.0064 U	0.0043 U
PCB Congener #156	MG/KG	0.0005	0.0023	0.0024	0.0018	0.01	0.0084	0.0031	0.009
PCB Congener #157	MG/KG	0.0005	0.0033 N	0.003 N	0.0022 N	0.011 N	0.0068 N	0.0045 N	0.013 N
PCB Congener #167	MG/KG	0.00001	0.0024 J	0.00063 J	0.00034 J	0.005 J	0.0036 J	0.0012 J	0.0037 J
PCB Congener #169	MG/KG	0.01	0.00066 U	0.00064 U	0.00066 U	0.00066 U	0.00066 U	0.00064 U	0.00093 U
PCB Congener #189	MG/KG	0.0001	0.00066 U	0.00064 U	0.00066 U	0.0015 U	0.00093 N	0.0002 N	0.00084 N
PCB Congener #77	MG/KG	0.0001	0.0033 U	0.0026 U	0.0026 U	0.013 U	0.013 U	0.0064 U	0.012 U
PCB Congener #81	MG/KG	0.0001	0.026 U	0.025 U	0.035 U	0.18 U	0.092 U	0.061 U	0.11 U

Tissue data detects only TEQ Results

PCB Congener		EPA 823-B-00-007 TEFs	UNH-LMB1D 11/20/2002	UNHLMB1 11/20/2002	UNHLMB2 11/20/2002	UNHSBF1 12/10/2002	UNHSBF2 12/10/2002	UNHSBF3 12/10/2002	UNHSPB1 11/20/2002
PCB Congener #105	MG/KG	0.0001	7.200E-07	4.800E-07	4.200E-07	3.300E-06	1.700E-06	7.900E-07	N
PCB Congener #114	MG/KG	0.0005	U	U	U	U	U	U	U
PCB Congener #118	MG/KG	0.0001	2.000E-06	1.800E-06	1.600E-06	1.100E-05	7.700E-06	3.200E-06	6.900E-06
PCB Congener #123	MG/KG	0.0001	U	N	N	N	JN	N	U
PCB Congener #126	MG/KG	0.1	U	U	U	U	U	U	U
PCB Congener #156	MG/KG	0.0005	1.150E-06	1.200E-06	9.000E-07	5.000E-06	4.200E-06	1.550E-06	4.500E-06
PCB Congener #157	MG/KG	0.0005	N	N	N	N	N	N	N
PCB Congener #167	MG/KG	0.00001	2.400E-08 J	6.300E-09 J	3.400E-09 J	5.000E-08 J	3.600E-08 J	1.200E-08 J	3.700E-08 J
PCB Congener #169	MG/KG	0.01	U	U	U	U	U	U	U
PCB Congener #189	MG/KG	0.0001	U	U	U	U	N	N	N
PCB Congener #77	MG/KG	0.0001	U	U	U	U	U	U	U
PCB Congener #81	MG/KG	0.0001	U	U	U	U	U	U	U
Total TEQ			3.89E-06	3.49E-06	2.92E-06	1.94E-05	1.36E-05	5.55E-06	1.14E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 29. Coosa River PCB Congener Data1/10 Detection Limit Calculations for Location Logan Martin

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	0.0044	0.0079	0.0015 JC	0.00069 J	0.0067 N	0.0022 J	0.006 J
PCB Congener #114	MG/KG	0.0005	0.00064 U	0.00063 U	0.0034 N	0.0016 N	0.0065 U	0.0016 N	0.0039 N
PCB Congener #118	MG/KG	0.0001	0.011	0.011	0.024 JC	0.011 JC	0.023	0.009 C	0.023 JC
PCB Congener #123	MG/KG	0.0001	0.0013 U	0.0012 U	0.0029 N	0.00007 N	0.0041 U	0.0013	0.0014 N
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00063 U	0.0046 J	0.0022 J	0.0038 U	0.0022 J	0.00086 J
PCB Congener #156	MG/KG	0.0005	0.001 J	0.0022	0.0036 J	0.001 J	0.0033	0.00062 J	0.0025 J
PCB Congener #157	MG/KG	0.0005	0.00064 U	0.0012 U	0.0012 J	0.00006 J	0.0037 N	0.00046 J	0.001 J
PCB Congener #167	MG/KG	0.00001	0.0018	0.003	0.00022 J	0.002 N	0.0019 U	0.0005 J	0.00008 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00063 U	0.00013 U	0.00012 U	0.00066 U	0.00013 U	0.00012 U
PCB Congener #189	MG/KG	0.0001	0.00037 J	0.00028 J	0.00021 J	0.00014 JN	0.0011 U	0.0003 J	0.0002 J
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.0012 U	0.033	0.013	0.0066 U	0.013	0.052
PCB Congener #81	MG/KG	0.0001	0.00064 U	0.0012 U	0.0017 N	0.00081 N	0.045 U	0.002 N	0.0015 N

Tissue Data 1/10 of Non-detect Calculations

PCB Congener		TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	4.4E-03	7.9E-03	1.5E-03 JC	8.9E-04 J	6.7E-04 N	2.2E-03 J	6.0E-03 J
PCB Congener #114	MG/KG	0.0005	6.4E-05 U	6.3E-05 U	3.4E-04 N	1.6E-04 N	6.5E-04 U	1.6E-04 N	3.9E-04 N
PCB Congener #118	MG/KG	0.0001	1.1E-02	1.1E-02	2.4E-02 JC	1.1E-02 JC	2.3E-02	9.0E-03 C	2.3E-02 JC
PCB Congener #123	MG/KG	0.0001	1.3E-04 U	1.2E-04 U	2.9E-04 N	7.0E-06 N	4.1E-04 U	1.3E-03	1.4E-04 N
PCB Congener #126	MG/KG	0.1	6.4E-05 U	6.3E-05 U	4.6E-03 J	2.2E-03 J	3.8E-04 U	2.2E-03 J	8.6E-04 J
PCB Congener #156	MG/KG	0.0005	1.0E-03 J	2.2E-03	3.6E-03 J	1.0E-03 J	3.3E-03	6.2E-04 J	2.5E-03 J
PCB Congener #157	MG/KG	0.0005	6.4E-05 U	1.2E-04 U	1.2E-03 J	6.0E-05 J	3.7E-04 N	4.6E-04 J	1.0E-03 J
PCB Congener #167	MG/KG	0.00001	1.8E-03	3.0E-03	2.2E-04 J	2.0E-04 N	1.9E-04 U	5.0E-04 J	8.0E-05 J
PCB Congener #169	MG/KG	0.01	6.4E-05 U	6.3E-05 U	1.3E-05 U	1.2E-05 U	6.6E-05 U	1.3E-05 U	1.2E-05 U
PCB Congener #189	MG/KG	0.0001	3.7E-04 J	2.8E-04 J	2.1E-04 J	1.4E-04 JN	1.1E-04 U	3.0E-04 J	2.0E-04 J
PCB Congener #77	MG/KG	0.0001	6.4E-05 U	1.2E-04 U	3.3E-02	1.3E-02	6.6E-04 U	1.3E-02	5.2E-02
PCB Congener #81	MG/KG	0.0001	6.4E-05 U	1.2E-04 U	1.7E-04 N	8.1E-05 N	4.5E-03 U	2.0E-04 N	1.5E-04 N

Tissue Data 1/10 of Non-detect Results

PCB Congener		TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	4.4E-07	7.9E-07	1.5E-07 JC	8.9E-08 J	6.7E-08 N	2.2E-07 J	6.0E-07 J
PCB Congener #114	MG/KG	0.0005	3.2E-08 U	3.2E-08 U	1.7E-07 N	8.0E-08 N	3.3E-07 U	8.0E-08 N	2.0E-07 N
PCB Congener #118	MG/KG	0.0001	1.1E-06	1.1E-06	2.4E-06 JC	1.1E-06 JC	2.3E-06	9.0E-07 C	2.3E-06 JC
PCB Congener #123	MG/KG	0.0001	1.3E-08 U	1.2E-08 U	2.9E-08 N	7.0E-10 N	4.1E-08 U	1.3E-07	1.4E-08 N
PCB Congener #126	MG/KG	0.1	6.4E-06 U	6.3E-06 U	4.6E-04 J	2.2E-04 J	3.8E-05 U	2.2E-04 J	8.6E-05 J
PCB Congener #156	MG/KG	0.0005	5.0E-07 J	1 1E-06	1.8E-06 J	5.0E-07 J	1.7E-06	3.1E-07 J	1.3E-06 J
PCB Congener #157	MG/KG	0.0005	3.2E-08 U	6.0E-08 U	6.0E-07 J	3.0E-08 J	1.9E-07 N	2.3E-07 J	5.0E-07 J
PCB Congener #167	MG/KG	0.00001	1.8E-08	3.0E-08	2.2E-09 J	2.0E-09 N	1.9E-09 U	5.0E-09 J	8.0E-10 J
PCB Congener #169	MG/KG	0.01	6.4E-07 U	6.3E-07 U	1.3E-07 U	1.2E-07 U	6.6E-07 U	1.3E-07 U	1.2E-07 U
PCB Congener #189	MG/KG	0.0001	3.7E-08 J	2.8E-08 J	2.1E-08 J	1.4E-08 JN	1.1E-08 U	3.0E-08 J	2.0E-08 J
PCB Congener #77	MG/KG	0.0001	6.4E-09 U	1.2E-08 U	3.3E-06	1.3E-06	6.6E-08 U	1.3E-06	5.2E-06
PCB Congener #81	MG/KG	0.0001	6.4E-09 U	1.2E-08 U	1 7E-08 N	8.1E-09 N	4.5E-07 U	2.0E-08 N	1.5E-08 N
Total TEQ			9.2E-06	1.0E-05	4.7E-04	2.2E-04	4.4E-05	2.2E-04	9.6E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 30. Coosa River PCB Congener Data 1/2 Detection Limit Calculations for Location Logan Martin

Tissue Data

PCB Congener		EPA 823-B-00-007 TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	0.0044	0.0079	0.0015 JC	0.00089 J	0.0067 N	0.0022 J	0.006 J
PCB Congener #114	MG/KG	0.0005	0.00064 U	0.00063 U	0.0034 N	0.0016 N	0.0065 U	0.0016 N	0.0039 N
PCB Congener #118	MG/KG	0.0001	0.011	0.011	0.024 JC	0.011 JC	0.023	0.009 C	0.023 JC
PCB Congener #123	MG/KG	0.0001	0.0013 U	0.0012 U	0.0029 N	0.00007 N	0.0041 U	0.0013	0.0014 N
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00063 U	0.0046 J	0.0022 J	0.0038 U	0.0022 J	0.00086 J
PCB Congener #156	MG/KG	0.0005	0.001 J	0.0022	0.0036 J	0.001 J	0.0033	0.00062 J	0.0025 J
PCB Congener #157	MG/KG	0.0005	0.00064 U	0.0012 U	0.0012 J	0.00006 J	0.0037 N	0.00046 J	0.001 J
PCB Congener #167	MG/KG	0.00001	0.0018	0.003	0.00022 J	0.002 N	0.0019 U	0.0005 J	0.00008 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00063 U	0.00013 U	0.00012 U	0.00066 U	0.00013 U	0.00012 U
PCB Congener #189	MG/KG	0.0001	0.00037 J	0.00028 J	0.00021 J	0.00014 JN	0.0011 U	0.0003 J	0.0002 J
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.0012 U	0.033	0.013	0.0066 U	0.013	0.052
PCB Congener #81	MG/KG	0.0001	0.00064 U	0.0012 U	0.0017 N	0.00081 N	0.045 U	0.002 N	0.0015 N

Tissue Data 1/2 of Detection Limit Calculations

PCB Congener		TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	4.4E-03	7.9E-03	1.5E-03 JC	8.9E-04 J	3.4E-03 N	2.2E-03 J	6.0E-03 J
PCB Congener #114	MG/KG	0.0005	3.2E-04 U	3.2E-04 U	1.7E-03 N	8.0E-04 N	3.3E-03 U	8.0E-04 N	2.0E-03 N
PCB Congener #118	MG/KG	0.0001	1.1E-02	1.1E-02	2.4E-02 JC	1.1E-02 JC	2.3E-02	9.0E-03 C	2.3E-02 JC
PCB Congener #123	MG/KG	0.0001	6.5E-04 U	6.0E-04 U	1.5E-03 N	3.5E-05 N	2.1E-03 U	1.3E-03	7.0E-04 N
PCB Congener #126	MG/KG	0.1	3.2E-04 U	3.2E-04 U	4.6E-03 J	2.2E-03 J	1.9E-03 U	2.2E-03 J	8.6E-04 J
PCB Congener #156	MG/KG	0.0005	1.0E-03 J	2.2E-03	3.6E-03 J	1.0E-03 J	3.3E-03	6.2E-04 J	2.5E-03 J
PCB Congener #157	MG/KG	0.0005	3.2E-04 U	6.0E-04 U	1.2E-03 J	6.0E-05 J	1.9E-03 N	4.6E-04 J	1.0E-03 J
PCB Congener #167	MG/KG	0.00001	1.8E-03	3.0E-03	2.2E-04 J	1.0E-03 N	9.5E-04 U	5.0E-04 J	8.0E-05 J
PCB Congener #169	MG/KG	0.01	3.2E-04 U	3.2E-04 U	6.5E-05 U	6.0E-05 U	3.3E-04 U	6.5E-05 U	6.0E-05 U
PCB Congener #189	MG/KG	0.0001	3.7E-04 J	2.8E-04 J	2.1E-04 J	1.4E-04 JN	5.5E-04 U	3.0E-04 J	2.0E-04 J
PCB Congener #77	MG/KG	0.0001	3.2E-04 U	6.0E-04 U	3.3E-02	1.3E-02	3.3E-03 U	1.3E-02	5.2E-02
PCB Congener #81	MG/KG	0.0001	3.2E-04 U	6.0E-04 U	8.5E-04 N	4.1E-04 N	2.3E-02 U	1.0E-03 N	7.5E-04 N

Tissue Data 1/2 Detection Limit TEQ Results

PCB Congener		TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	4.4E-07	7.9E-07	1.5E-07 JC	8.9E-08 J	3.4E-07 N	2.2E-07 J	6.0E-07 J
PCB Congener #114	MG/KG	0.0005	1.6E-07 U	1.6E-07 U	8.5E-07 N	4.0E-07 N	1.6E-06 U	4.0E-07 N	9.8E-07 N
PCB Congener #118	MG/KG	0.0001	1.1E-06	1.1E-06	2.4E-06 JC	1.1E-06 JC	2.3E-06	9.0E-07 C	2.3E-06 JC
PCB Congener #123	MG/KG	0.0001	6.5E-08 U	6.0E-08 U	1.5E-07 N	3.5E-09 N	2.1E-07 U	1.3E-07	7.0E-08 N
PCB Congener #126	MG/KG	0.1	3.2E-05 U	3.2E-05 U	4.6E-04 J	2.2E-04 J	1.9E-04 U	2.2E-04 J	8.6E-05 J
PCB Congener #156	MG/KG	0.0005	5.0E-07 J	1.1E-06	1.8E-06 J	5.0E-07 J	1.7E-06	3.1E-07 J	1.3E-06 J
PCB Congener #157	MG/KG	0.0005	1.6E-07 U	3.0E-07 U	6.0E-07 J	3.0E-08 J	9.3E-07 N	2.3E-07 J	5.0E-07 J
PCB Congener #167	MG/KG	0.00001	1.8E-08	3.0E-08	2.2E-09 J	1.0E-08 N	9.5E-09 U	5.0E-09 J	8.0E-10 J
PCB Congener #169	MG/KG	0.01	3.2E-06 U	3.2E-06 U	6.5E-07 U	6.0E-07 U	3.3E-06 U	6.5E-07 U	6.0E-07 U
PCB Congener #189	MG/KG	0.0001	3.7E-08 J	2.8E-08 J	2.1E-08 J	1.4E-08 JN	5.5E-08 U	3.0E-08 J	2.0E-08 J
PCB Congener #77	MG/KG	0.0001	3.2E-08 U	6.0E-08 U	3.3E-06	1.3E-06	3.3E-07 U	1.3E-06	5.2E-06
PCB Congener #81	MG/KG	0.0001	3.2E-08 U	6.0E-08 U	8.5E-08 N	4.1E-08 N	2.3E-08 U	1.0E-07 N	7.5E-08 N
Total TEQ			3.8E-05	3.8E-05	4.7E-04	2.2E-04	2.0E-04	2.2E-04	9.8E-05

USEPA Screening Value, Frist Tier	2.1E-08
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value. NA-Not analyzed. NAI-Interferences. J-Estimated value.
N-Presumptive evidence of presence of material.
NR-Not Reported
K-Actual value is known to be less than value given.
L-Actual value is known to be greater than value given.
U-Material was analyzed for but not detected. The number is the minimum quantitation limit.
R-QC indicates that data unusable. Compound may or may not be present. Resampling and reanalysis is necessary for verification.
C-Confirmed by GCMS.
1.When no value is reported, see chlordane constituents.
2.Constituents or metabolites of technical chlordane.

Table 31. Coosa River Fish Tissue PCB Congener Data Detects Only for Location Logan Martin

PCB Congener		EPA 823-B-00-007 TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	0.0044	0.0079	0.0015 JC	0.00089 J	0.0087 N	0.0022 J	0.008 J
PCB Congener #114	MG/KG	0.0005	0.00064 U	0.00063 U	0.0034 N	0.0016 N	0.0065 U	0.0016 N	0.0039 N
PCB Congener #118	MG/KG	0.0001	0.011	0.011	0.024 JC	0.011 JC	0.023	0.009 C	0.023 JC
PCB Congener #123	MG/KG	0.0001	0.0013 U	0.0012 U	0.0029 N	0.00007 N	0.0041 U	0.0013	0.0014 N
PCB Congener #126	MG/KG	0.1	0.00064 U	0.00063 U	0.0046 J	0.0022 J	0.0038 U	0.0022 J	0.00086 J
PCB Congener #156	MG/KG	0.0005	0.001 J	0.0022	0.0036 J	0.001 J	0.0033	0.00062 J	0.0025 J
PCB Congener #157	MG/KG	0.0005	0.00064 U	0.0012 U	0.0012 J	0.00008 J	0.0037 N	0.00046 J	0.001 J
PCB Congener #167	MG/KG	0.00001	0.0018	0.003	0.00022 J	0.002 N	0.0019 U	0.0005 J	0.00068 J
PCB Congener #169	MG/KG	0.01	0.00064 U	0.00063 U	0.00013 U	0.00012 U	0.00066 U	0.00013 U	0.00012 U
PCB Congener #189	MG/KG	0.0001	0.00037 J	0.00028 J	0.00021 J	0.00014 JN	0.0011 U	0.0003 J	0.0002 J
PCB Congener #77	MG/KG	0.0001	0.00064 U	0.0012 U	0.033	0.013	0.0066 U	0.013	0.052
PCB Congener #81	MG/KG	0.0001	0.00064 U	0.0012 U	0.0017 N	0.00081 N	0.045 U	0.002 N	0.0015 N

PCB Congener		TEFs	LM-BCF1 12/09/2002	LM-BCF2 12/09/2002	LM-CCF1 11/21/2002	LM-LMB1 11/21/2002	LM-LMB1D 11/21/2002	LM-LMB2 11/21/2002	LM-SPB1 11/21/2002
PCB Congener #105	MG/KG	0.0001	4.400E-07	7.900E-07	1.500E-07	8.900E-08		2.200E-07	8.000E-07
PCB Congener #114	MG/KG	0.0005							
PCB Congener #118	MG/KG	0.0001	1.100E-06	1.100E-06	2.400E-06	1.100E-06	2.300E-06	9.000E-07	2.300E-06
PCB Congener #123	MG/KG	0.0001						1.300E-07	
PCB Congener #126	MG/KG	0.1			4.600E-04	2.200E-04		2.200E-04	8.600E-05
PCB Congener #156	MG/KG	0.0005	5.000E-07	1.100E-06	1.800E-06	5.000E-07	1.650E-06	3.100E-07	1.250E-06
PCB Congener #157	MG/KG	0.0005			6.000E-07	3.000E-08		2.300E-07	5.000E-07
PCB Congener #167	MG/KG	0.00001	1.800E-08	3.000E-08	2.200E-09			5.000E-09	6.000E-10
PCB Congener #169	MG/KG	0.01							
PCB Congener #189	MG/KG	0.0001	3.700E-08	2.800E-08	2.100E-08			3.000E-08	2.000E-08
PCB Congener #77	MG/KG	0.0001			3.300E-06	1.300E-06		1.300E-06	5.200E-06
PCB Congener #81	MG/KG	0.0001							
Total TEQ			2.10E-06	3.05E-06	4.66E-04	2.23E-04	3.95E-06	2.23E-04	9.59E-05

USEPA Screening Value, First Tier	2.1E-06
USEPA Risk Value, Second Tier	2.1E-06

Data Qualifiers

A-Average value NA-Not analyzed NAI-Interferences. J-Estimated value

N-Presumptive evidence of presence of material.

NR-Not Reported

K-Actual value is known to be less than value given

L-Actual value is known to be greater than value given

U-Material was analyzed for but not detected The number is the minimum quantitation limit.

R-QC indicates that data unuseable Compound may or may not be present Resampling and reanalysis is necessary for verification

C-Confirmed by GCMS

1.When no value is reported, see chlordane constituents.

2.Constituents or metabolites of technical chlordane

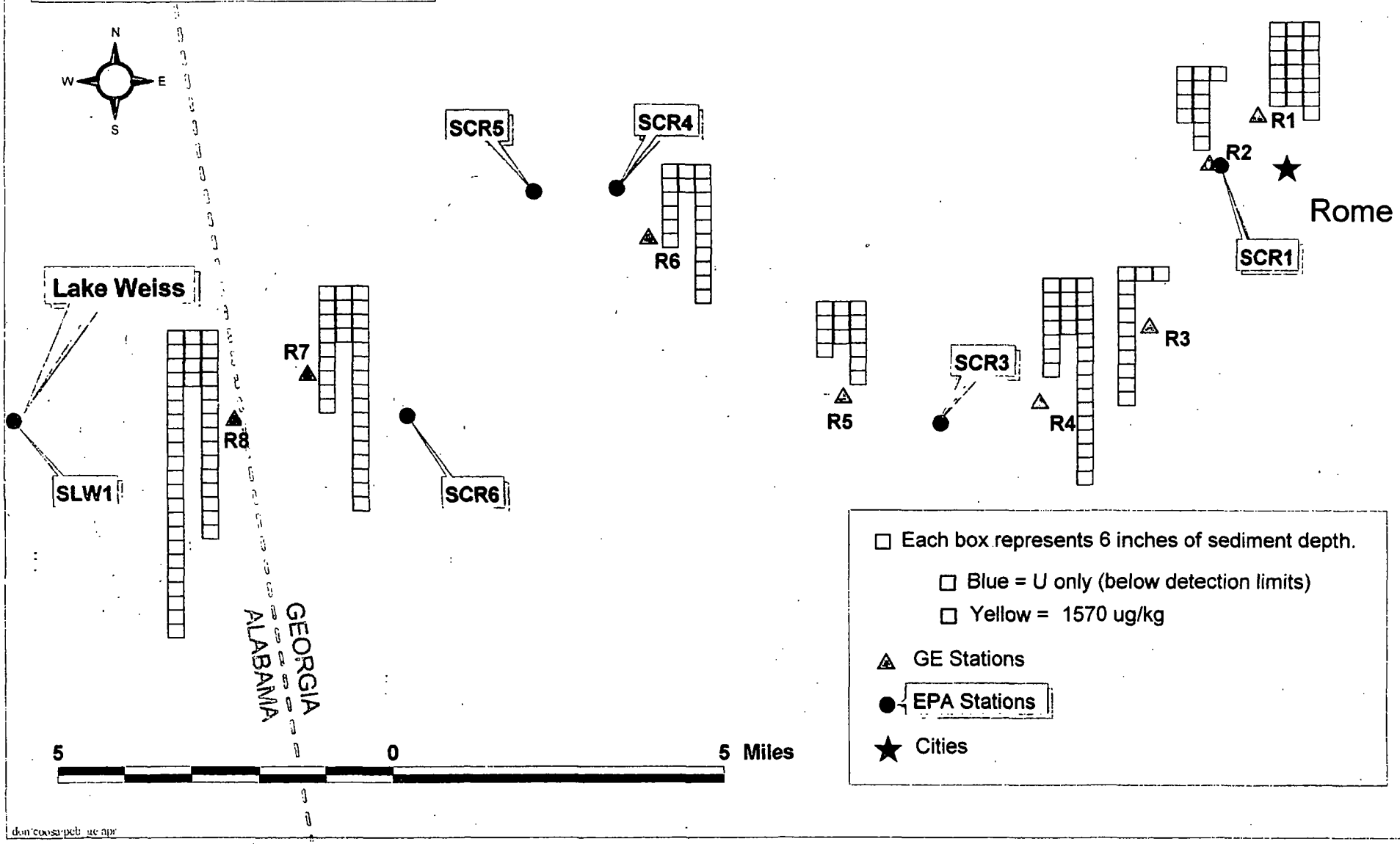
Table 32. Coosa River Fish Physical Measurements and Location Data, November-December, 2002

Station	Station ID	Trophic level	Species	ASB ID	Total Length (mm)	Whole Weight (g)	Fillet Weight (g)	Sampling Location Latitude (N)	Sampling Location Longitude (W)
River Mile 2, Rome GA	CR1	4	spotted bass	CR1-SPB1	426	1087	445	upper boundary 34° 15' 19.5"	upper boundary 85° 11' 31.5"
			spotted bass	CR1-SPB2	272	191	68		
			spotted bass	CR1-SPB5	446	1302	526		
			spotted bass	CR1-SPB6	285	289	112		
			spotted bass	CR1-SPB7	245	139	61		
		3	smallmouth buffalo	CR1-SBF1	505	1714	585	lower boundary 34° 14' 13.1"	lower boundary 85° 11' 36.0"
			smallmouth buffalo	CR1-SBF2	486	1576	447		
			smallmouth buffalo	CR1-SBF3	448	1208	436		
			smallmouth buffalo	CR1-SBF4	432	1155	451		
			smallmouth buffalo	CR1-SBF5	397	889	302		
Below Hwy 100	CR2	4	largemouth bass	CR2-LMB1	495	1625	659	upper boundary 34° 15' 01.0"	upper boundary 85° 22' 15.9"
			largemouth bass	CR2-LMB2	374	686	277		
			largemouth bass	CR2-LMB3	338	563	231		
			largemouth bass	CR2-LMB4	345	466	200		
			largemouth bass	CR2-LMB5	324	402	160		
		3	channel catfish	CR2-CCF1	458	756	229	lower boundary 34° 15' 06.2"	lower boundary 85° 22' 51.0"
			smallmouth buffalo	CR2-SBF1	480	1957	814		
			smallmouth buffalo	CR2-SBF2	476	1734	571		
			smallmouth buffalo	CR2-SBF3	369	751	292		
			smallmouth buffalo	CR2-SBF4	356	594	251		
Brushy Branch	CR3	4	largemouth bass	CR3-LMB1	523	2941	1054	upper boundary 34° 11' 8.6"	upper boundary 85° 24' 18.3"
			largemouth bass	CR3-LMB2	462	1344	495		
			largemouth bass	CR3-LMB3	380	1006	422		
			largemouth bass	CR3-LMB4	374	767	322		
			largemouth bass	CR3-LMB5	352	854	366		
		3	smallmouth buffalo	CR3-SBF1	385	883	363	lower boundary 34° 10' 49.1"	lower boundary 85° 24' 49.6"
			smallmouth buffalo	CR3-SBF2	346	591	229		
			smallmouth buffalo	CR3-SBF3	374	645	237		
			smallmouth buffalo	CR3-SBF4	345	533	216		
			smallmouth buffalo	CR3-SBF5	323	467	174		
Lake Weiss, Poole's Ferry	LW1	4	largemouth bass	LW1-LMB1	398	1033	416	upper boundary 34° 11' 10.6"	upper boundary 85° 30' 40.8"
			largemouth bass	LW1-LMB2	407	969	410		
			largemouth bass	LW1-LMB3	425	968	398		
			largemouth bass	LW1-LMB4	365	775	312		
			largemouth bass	LW1-LMB5	322	494	178		
		3	smallmouth buffalo	LW1-SBF1	450	1528	590	lower boundary 34° 11' 52.1"	lower boundary 85° 30' 11.5"
			smallmouth buffalo	LW1-SBF2	411	991	395		
			smallmouth buffalo	LW1-SBF3	397	893	370		
			smallmouth buffalo	LW1-SBF4	386	792	318		
			smallmouth buffalo	LW1-SBF5	390	823	342		
Lake Weiss, Bay Springs	LW2	4	largemouth bass	LW2-LMB1	444	1472	629	upper boundary 34° 10' 57.8"	upper boundary 85° 43' 58.8"
			largemouth bass	LW2-LMB2	438	1393	573		
			largemouth bass	LW2-LMB3	423	1250	481		
			largemouth bass	LW2-LMB4	340	507	209		
			spotted bass	LW2-SPB1	408	842	339		
		3	blue catfish	LW2-BCF1	482	817	276	lower boundary 34° 10' 38.2"	lower boundary 85° 45' 14.0"
			smallmouth buffalo	LW2-SBF1	688	4422	1482		
			smallmouth buffalo	LW2-SBF2	594	2782	813		
			smallmouth buffalo	LW2-SBF3	512	2372	789		
			smallmouth buffalo	LW2-SBF4	450	1515	657		
Upper Neely Henry Resevoir, Croft Ferry	UNH	4	largemouth bass	UNH-LMB1	500	2233	893	upper boundary 34° 06' 41.0"	upper boundary 85° 50' 42.0"
			largemouth bass	UNH-LMB2	371	887	383		
			largemouth bass	UNH-LMB3	340	522	198		
			spotted bass	UNH-SPB1	495	1535	594		
			spotted bass	UNH-SPB2	383	839	343-		
		3	smallmouth buffalo	UNH-SBF1	575	3322	1023	lower boundary 34° 06' 39.0"	lower boundary 85° 51' 27.8"
			smallmouth buffalo	UNH-SBF2	605	3244	1079		
			smallmouth buffalo	UNH-SBF3	485	1579	599		
			smallmouth buffalo	UNH-SBF4	455	1520	592		
			smallmouth buffalo	UNH-SBF5	450	1492	560		
Logan Martin Resevoir, near I-20	LM	4	largemouth bass	LM-LMB1	372	946	397	upper boundary 33° 35' 34.7"	upper boundary 86° 11' 07.6"
			largemouth bass	LM-LMB2	375	946	395		
			largemouth bass	LM-LMB3	335	638	273		
			largemouth bass	LM-LMB4	288	373	158		
			spotted bass	LM-SPB1	384	771	309		
		3	channel catfish	LM-CCF1	334	289	88	lower boundary 33° 35' 32.2"	lower boundary 86° 10' 52.8"
			blue catfish	LM-BCF1	390	556	168		
			blue catfish	LM-BCF2	340	260	74		
			blue catfish	LM-BCF4	300	202	61		
			blue catfish	LM-BCF5	300	178	55		

Fish handling and processing follows guidance in EPA 823-B-00-008.

APPENDIX B
FIGURES

Figure 1
GE - Rome
Sediment PCB Data
Total Aroclor Concentration
January, 2002



don/coosa/pcb_ge.apr

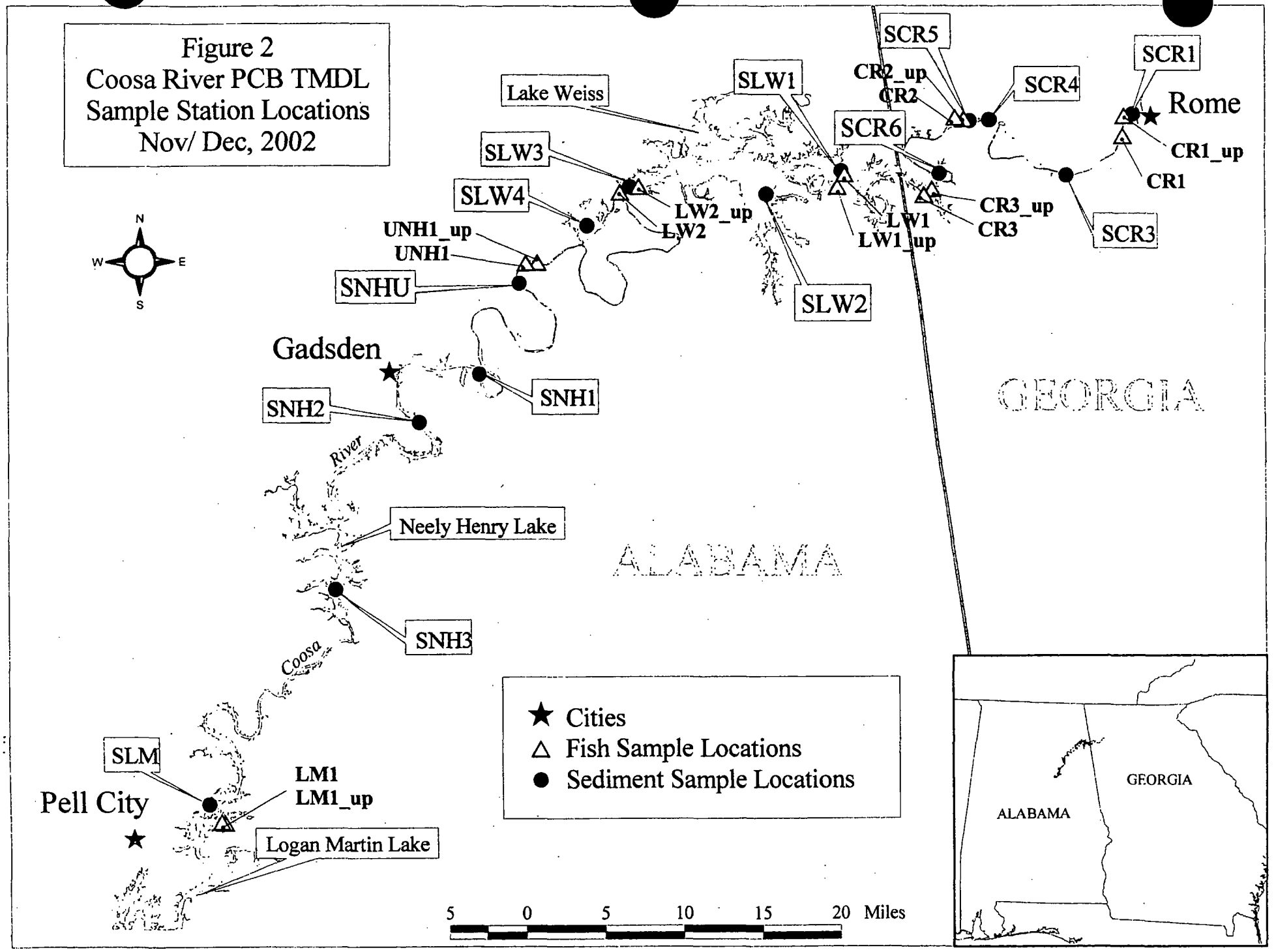


Figure 2
Coosa River PCB TMDL
Sample Station Locations
Nov/ Dec, 2002
N
W
E
S
Lake Weiss
SLW1
SLW2
SLW3
SLW4
LW2_up
LW2
LW1
LW1_up
SCR5
CR2_up
CR2
SCR4
SCR6
SCR1
Rome
CR1_up
CR1
CR3_up
CR3
SCR3
UNH1_up
UNH1
SNHU
Gadsden
SNH1
SNH2
River
Neely Henry Lake
SNH3
Coosa
SLM
Pell City
LM1
LM1_up
Logan Martin Lake
GEORGIA
ALABAMA
Cities
Fish Sample Locations
Sediment Sample Locations
5 0 5 10 15 20 Miles
GEORGIA
ALABAMA

Figure 3
Particle Size Distribution
Station SCR1

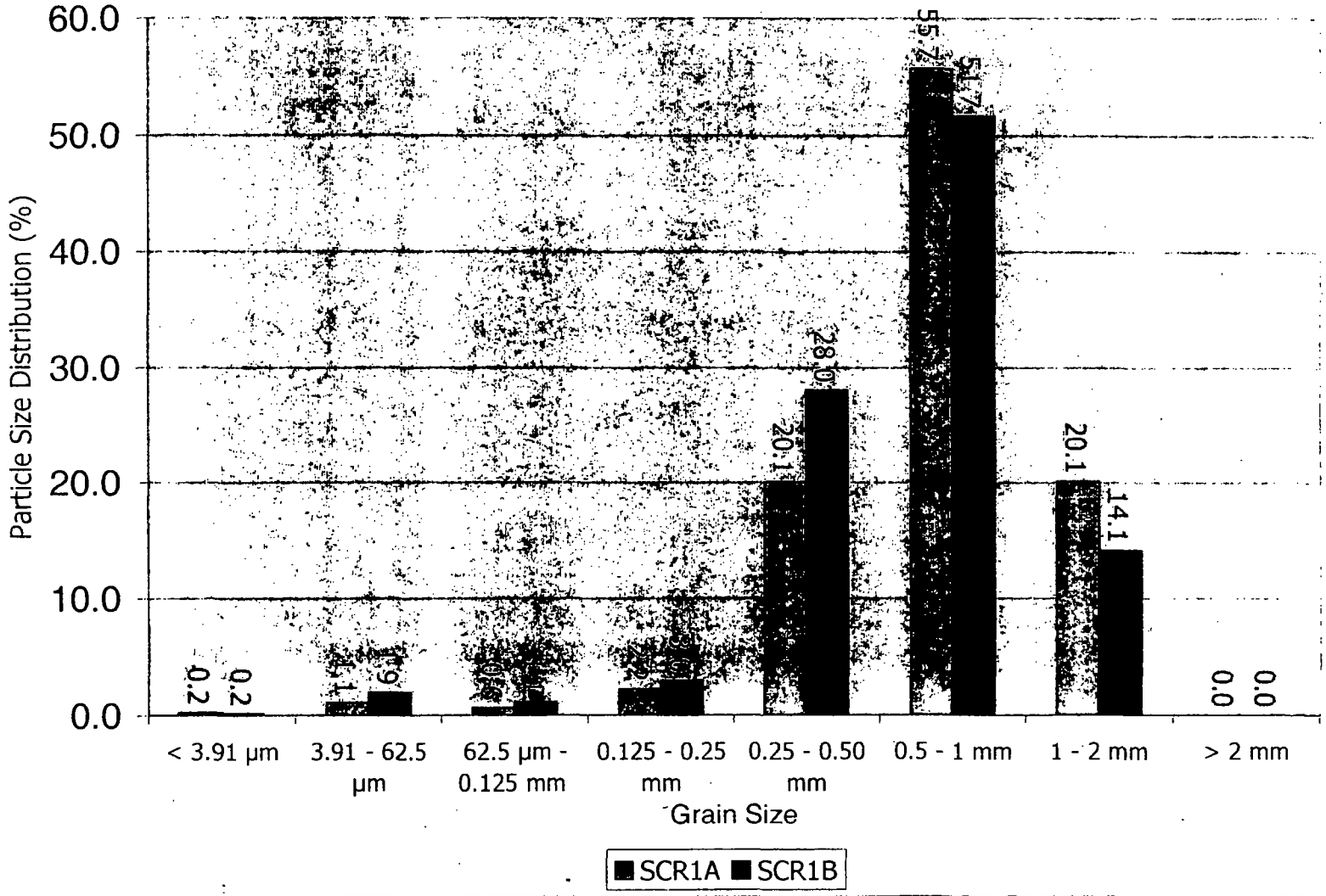


Figure 4
Particle Size Distribution
Station SCR3

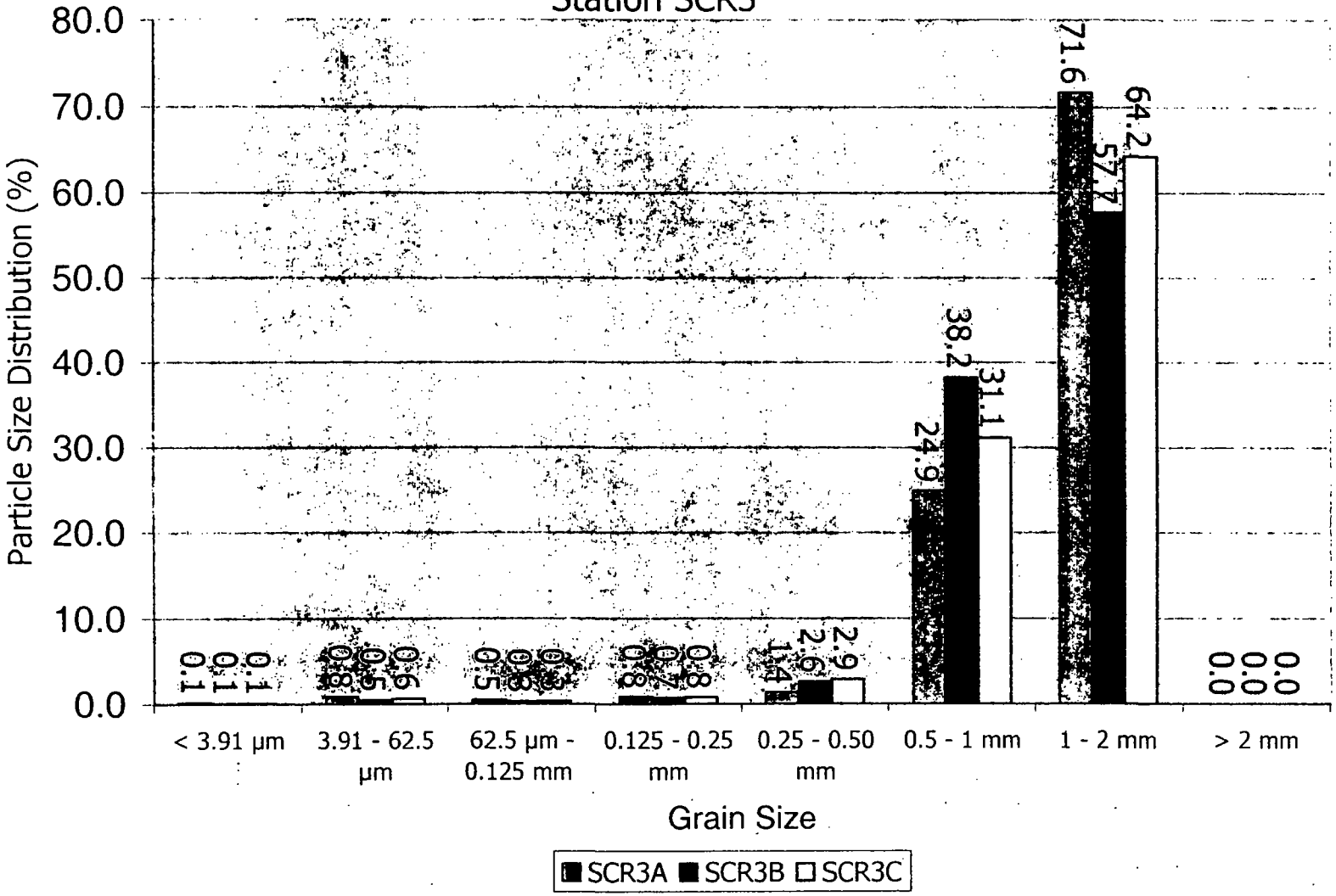


Figure 5
Particle Size Distribution
Station SCR4

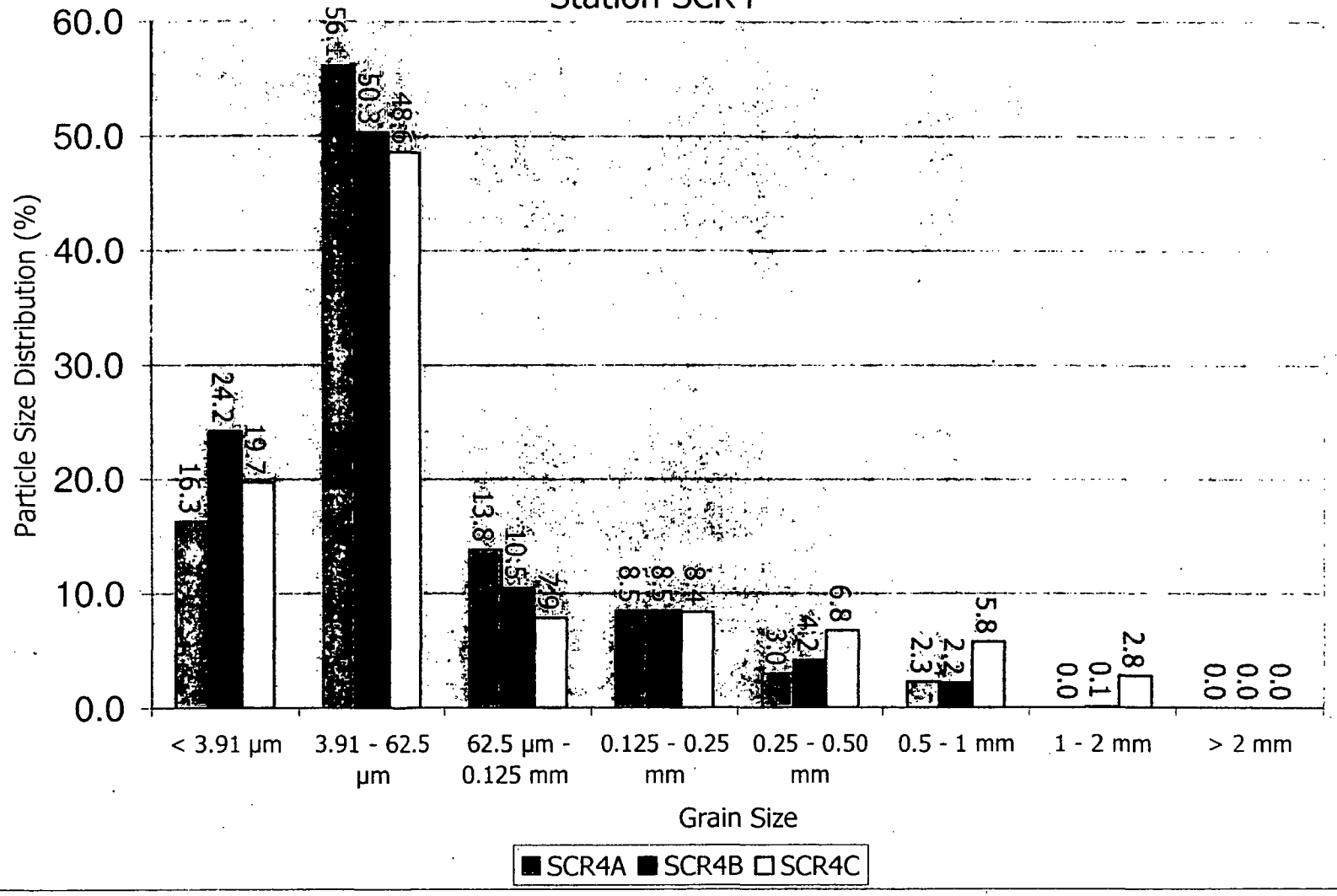


Figure 6
Particle Size Distribution
Station SCR5

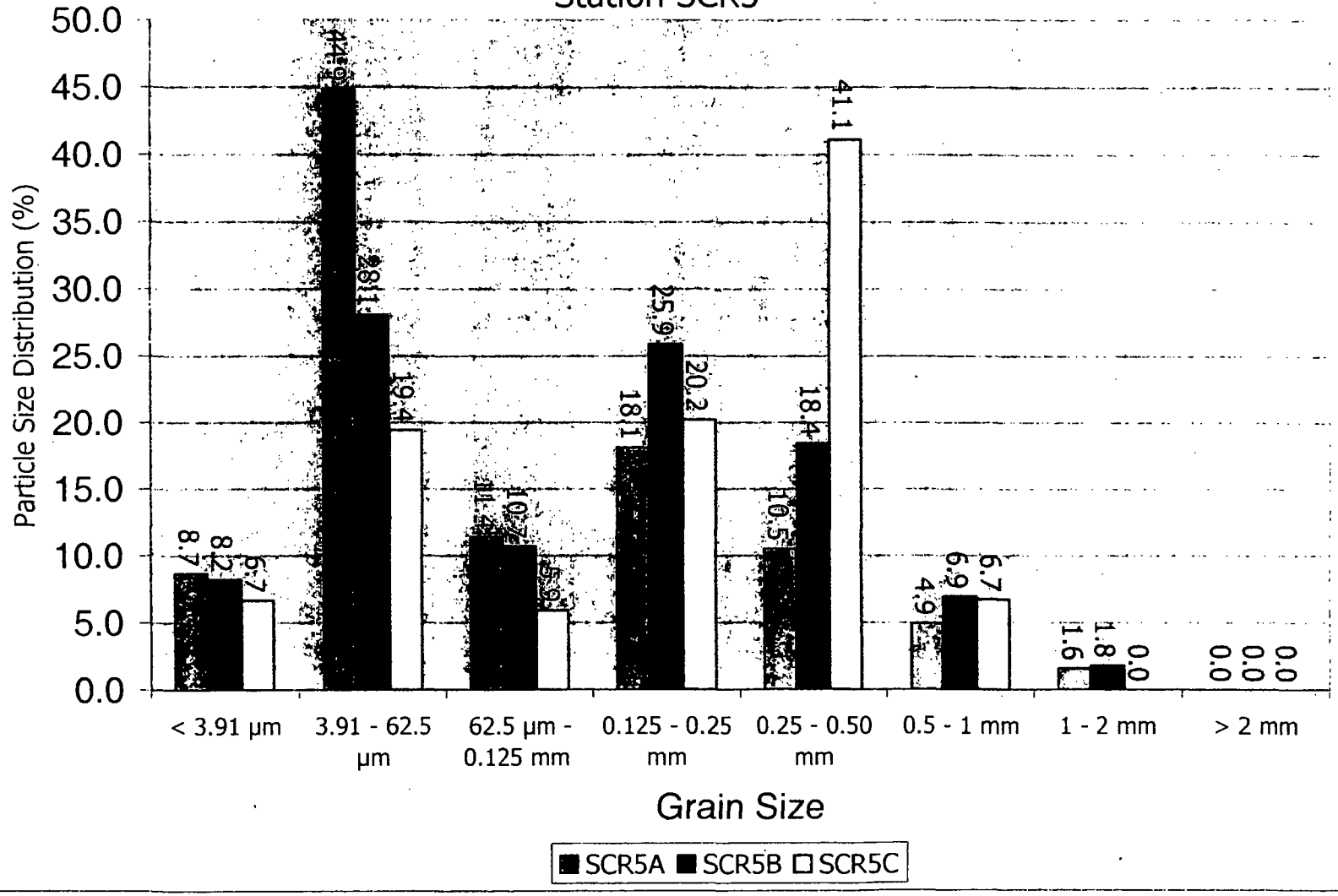


Figure 7
Particle Size Distribution
Station SCR6

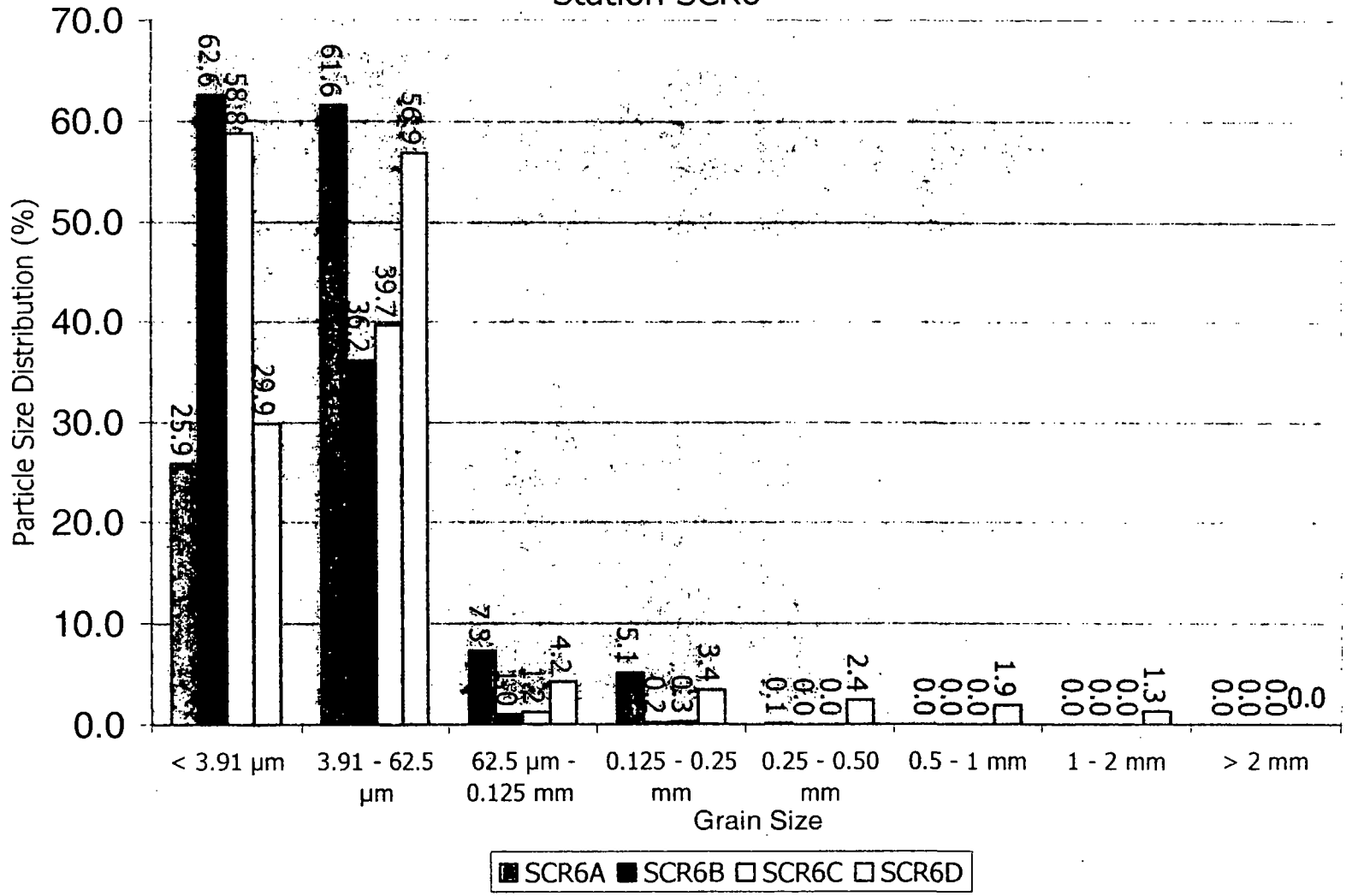


Figure 8
Particle Size Distribution
Station SLW1

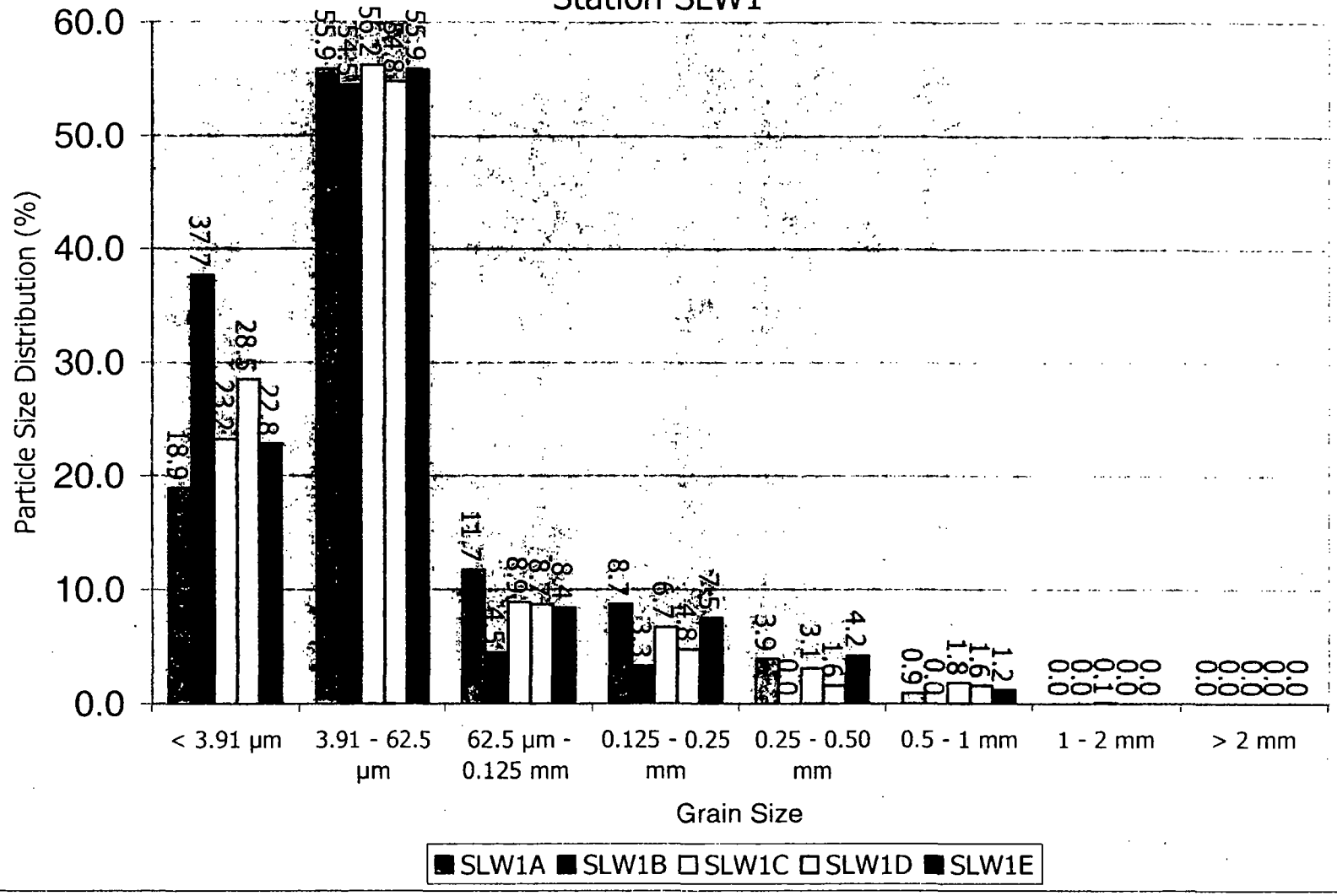


Figure 9
Particle Size Distribution
Station SLW2

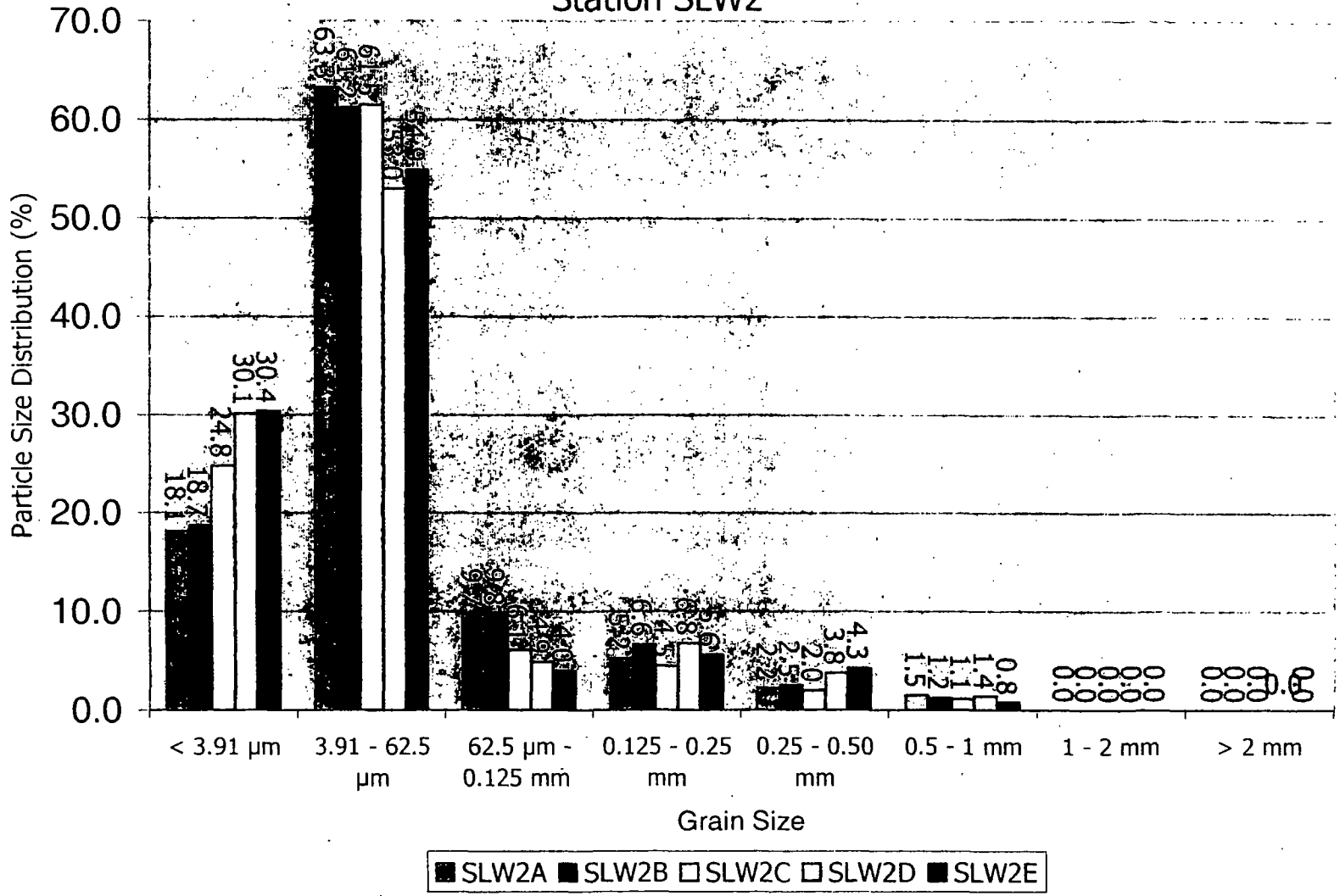


Figure 10
Particle Size Distribution
Station SLW3

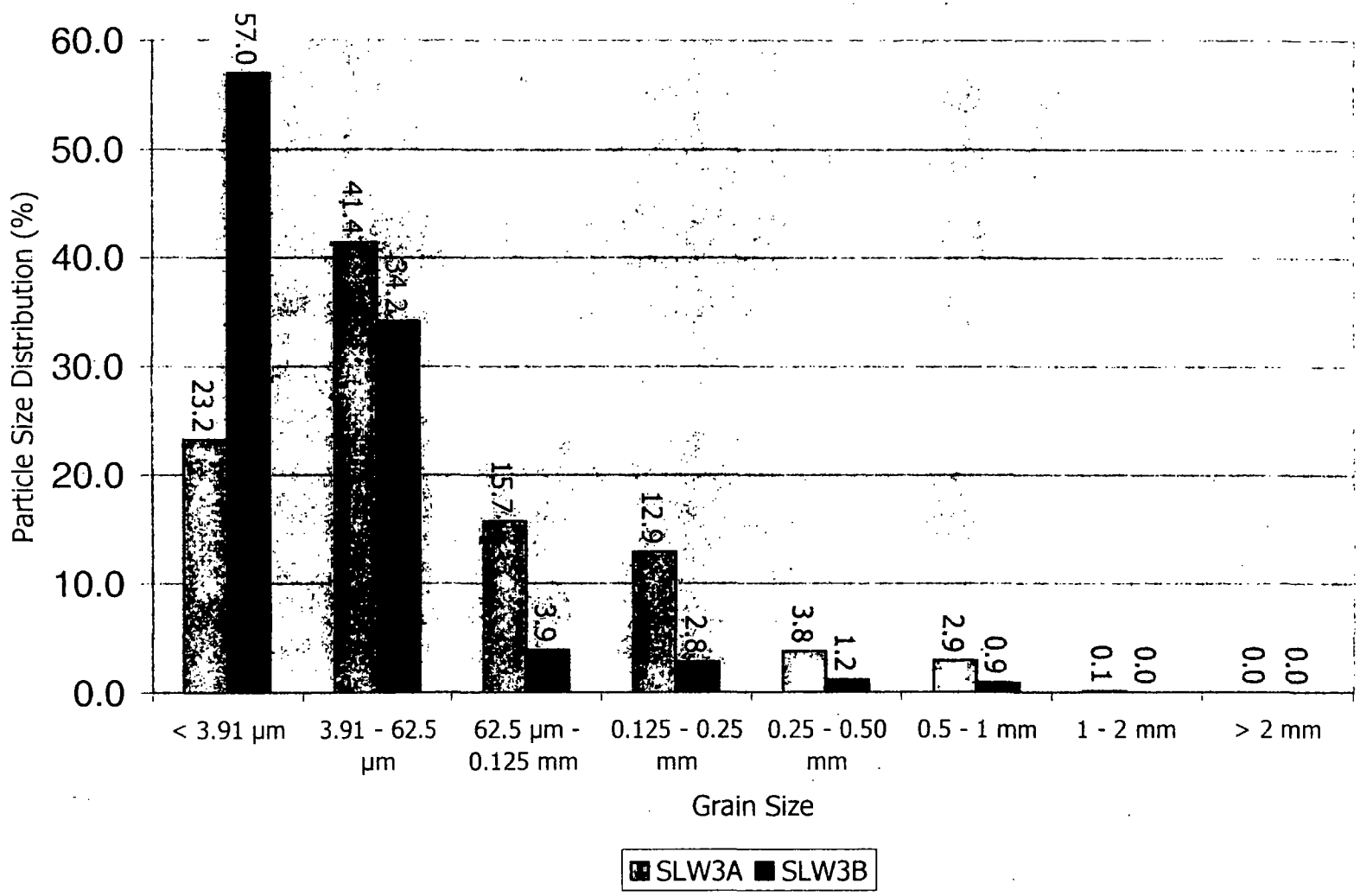


Figure 11
Particle Size Distribution
Station SLW4

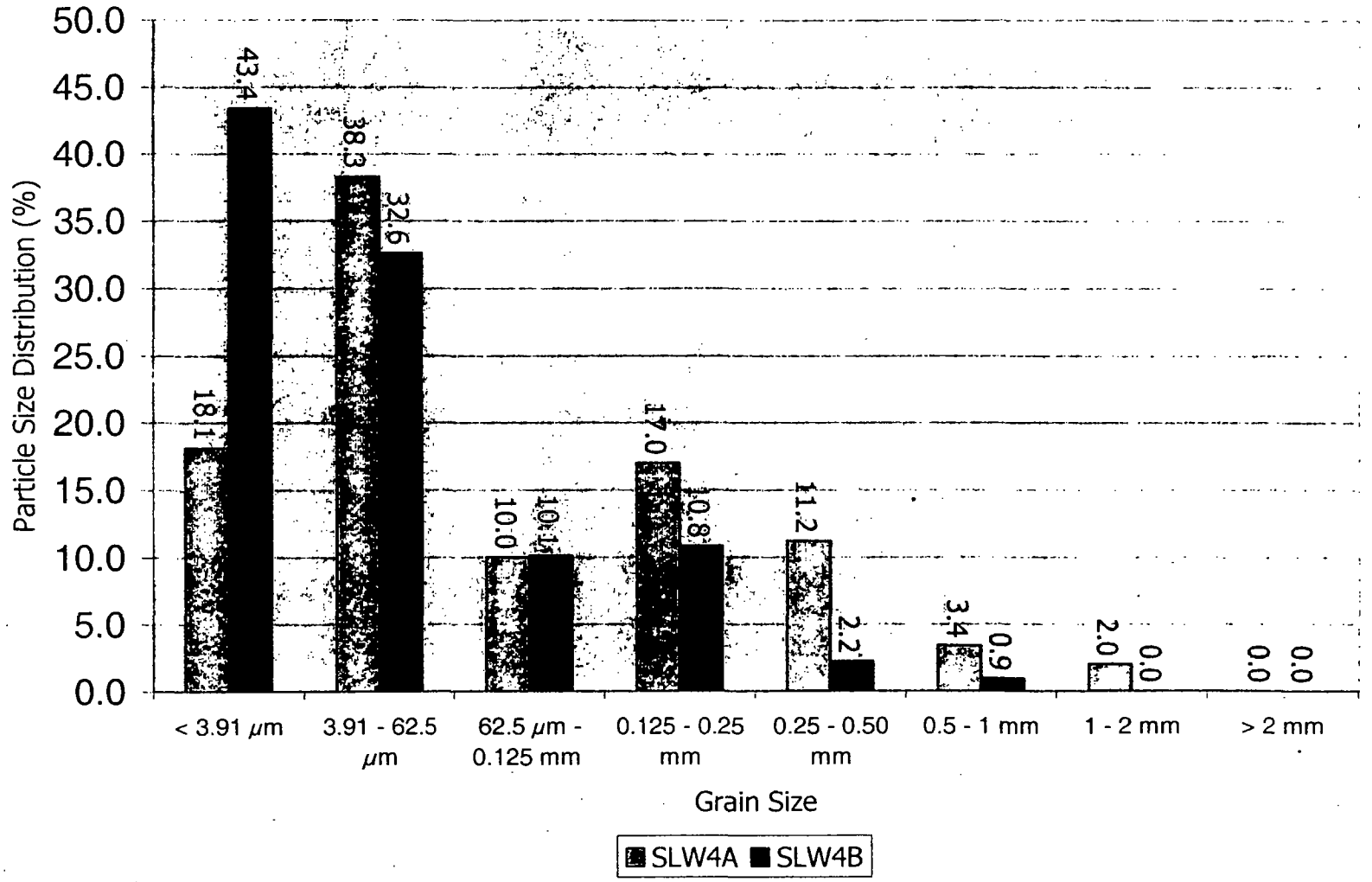


Figure 12
Particle Size Distribution
Station SNHU

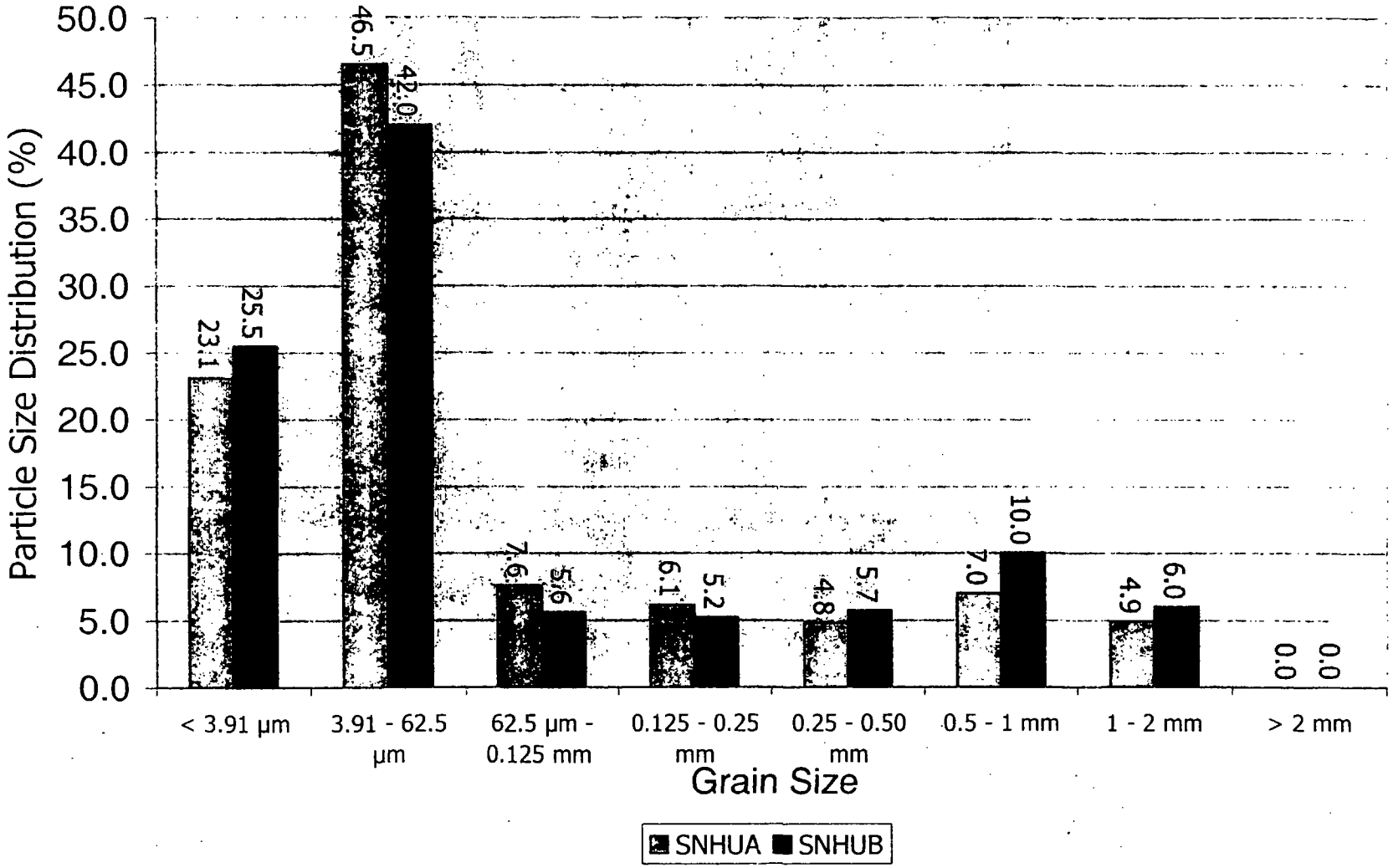


Figure 13
Particle Size Distribution
Station SNH1

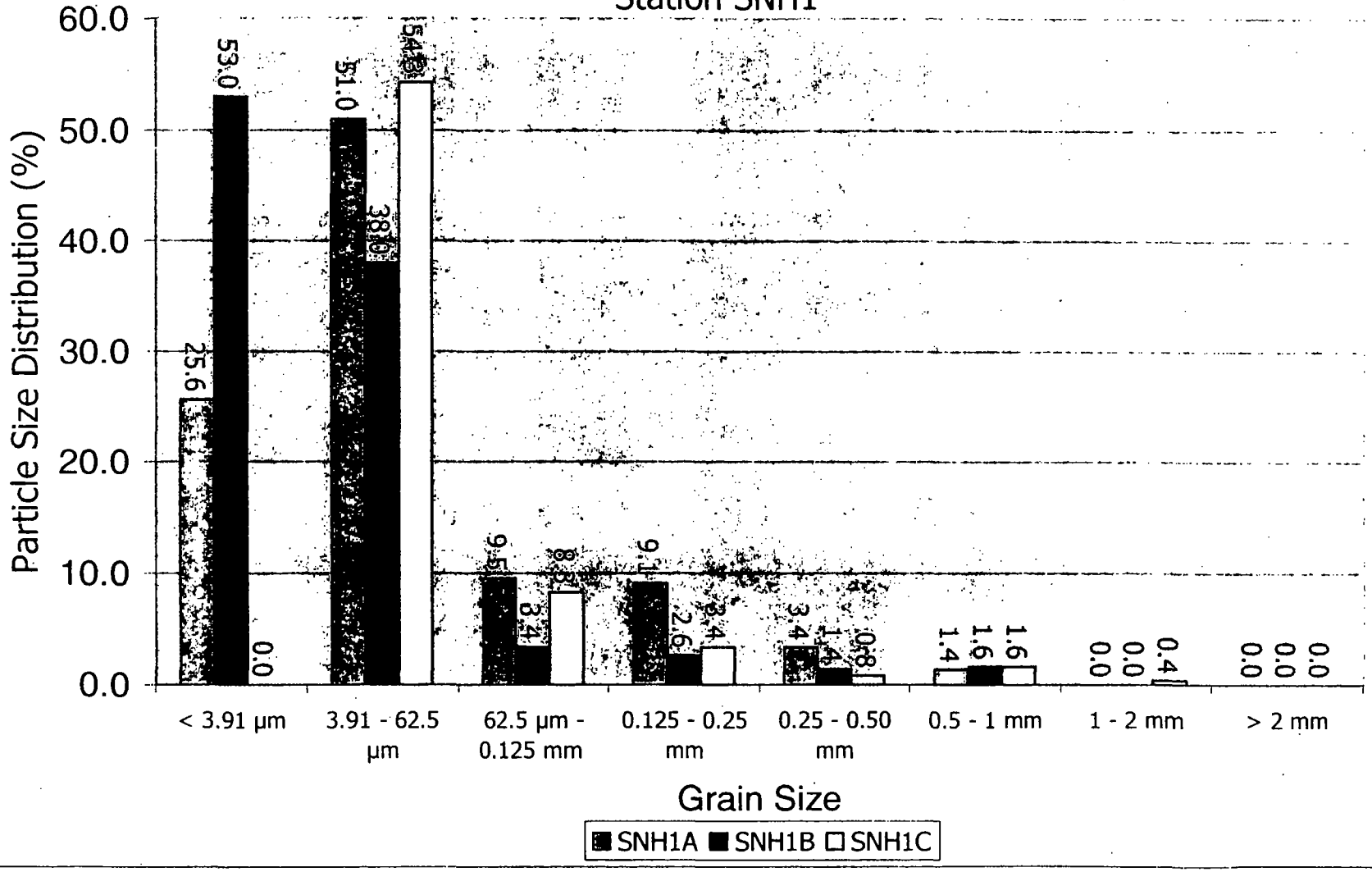


Figure 14
Particle Size Distribution
Station SNH2

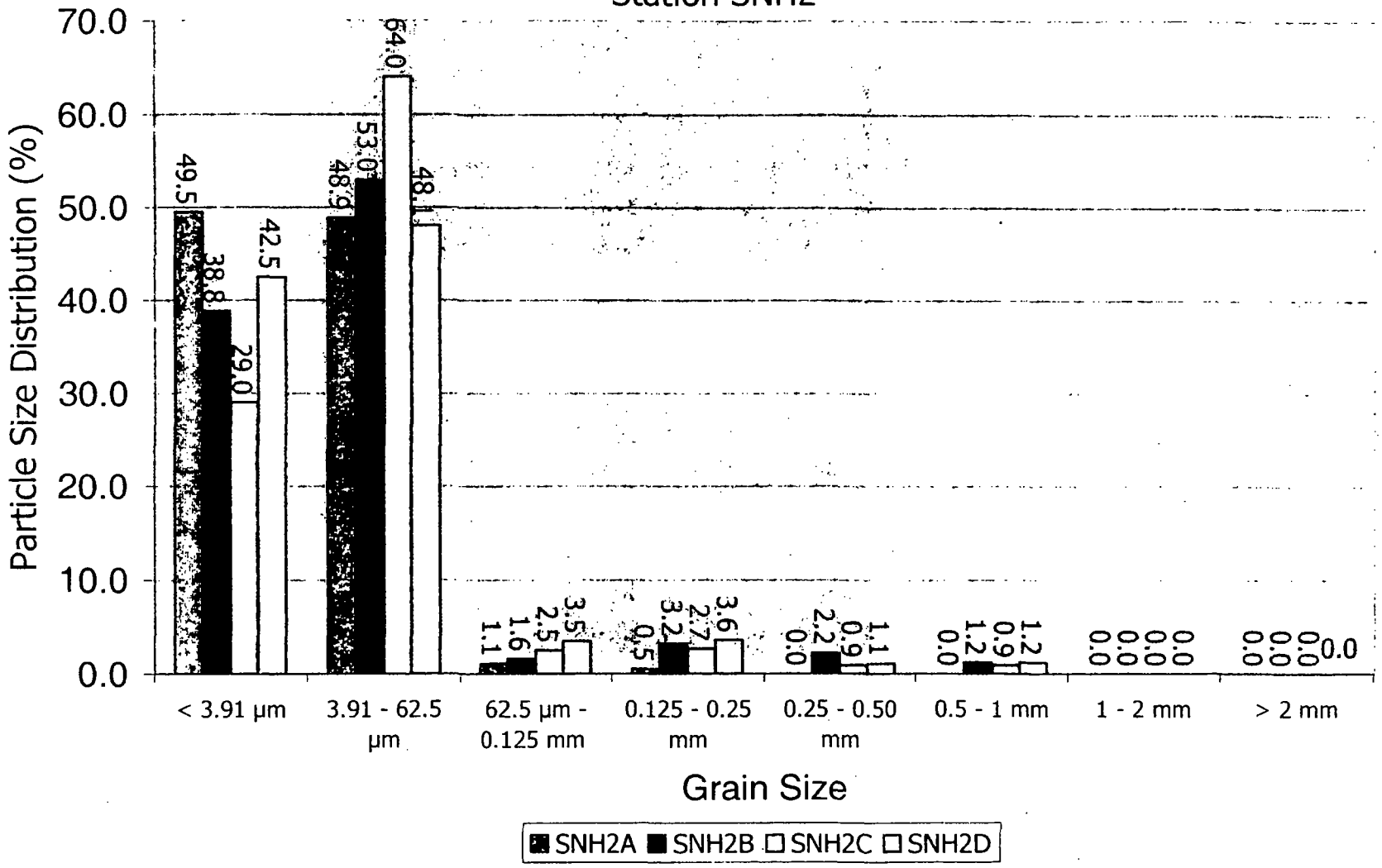


Figure 15
Particle Size Distribution
Station SNH3

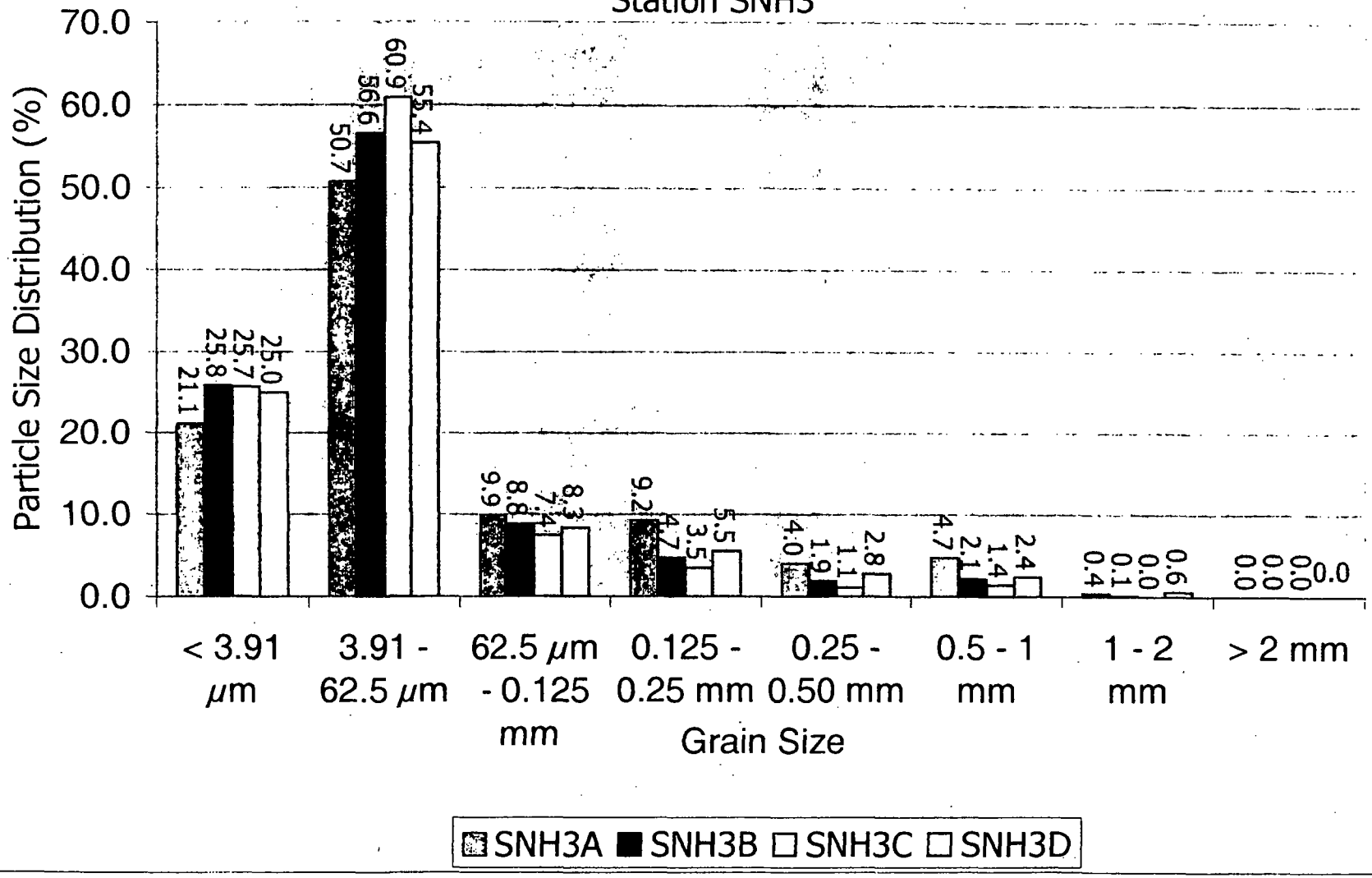


Figure 16
Particle Size Distribution
Station SLM

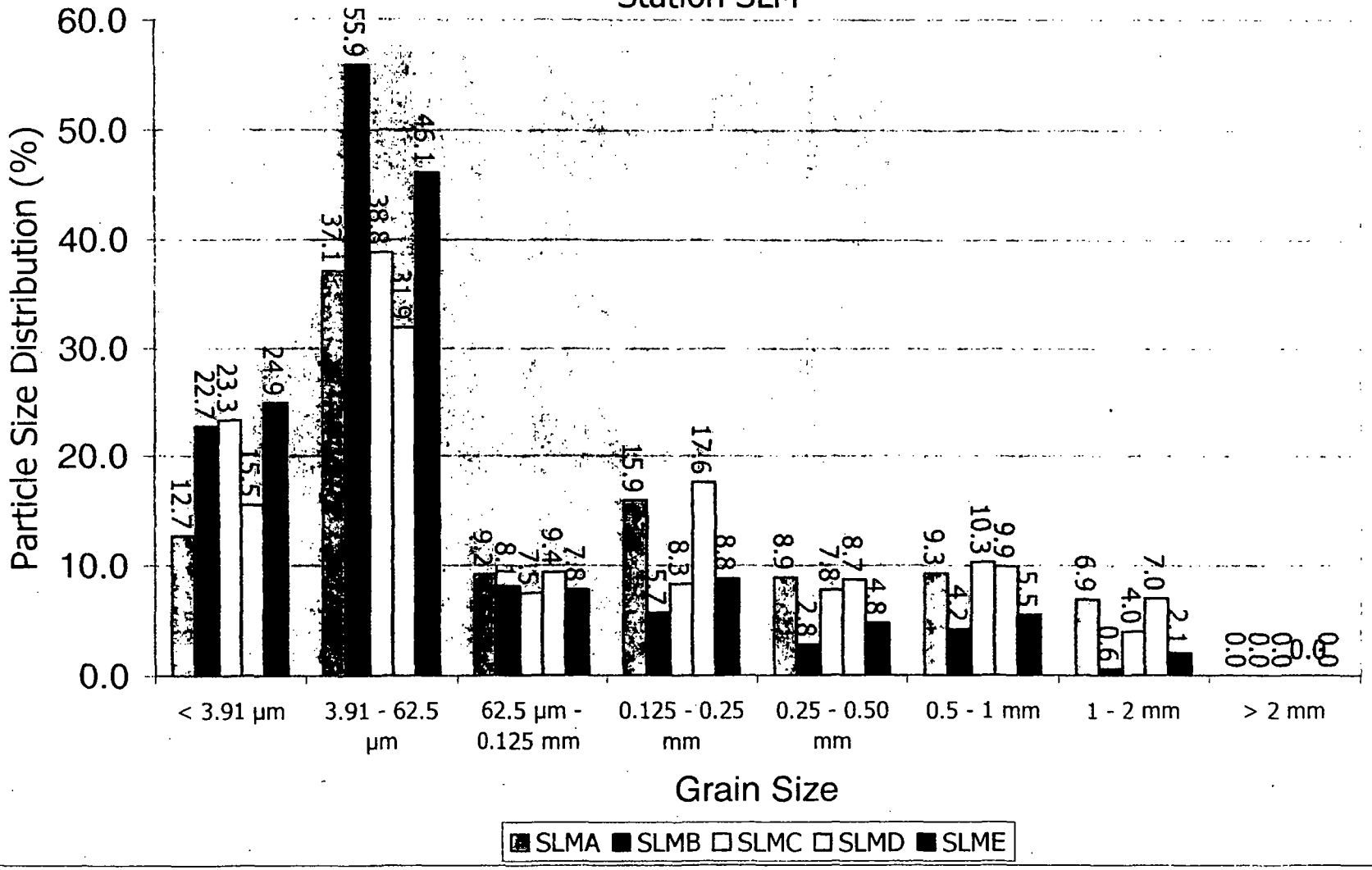


Figure 19. Coosa River at Brushy Branch, Site CR 3
Fish Tissue Average PCB Aroclor 1260 Concentration
November - December, 2002

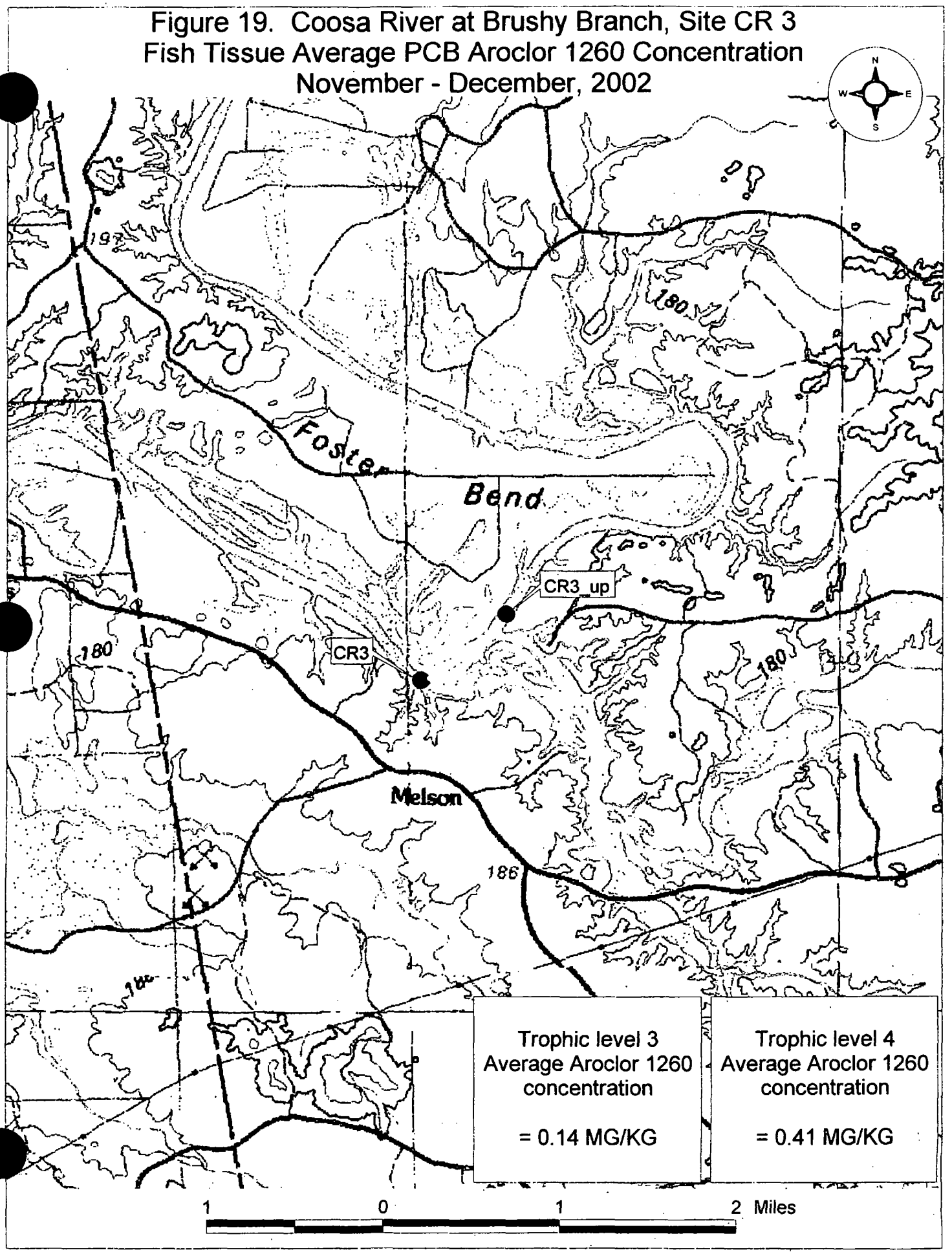


Figure 20. Coosa River at Lake Weiss, Site LW 1
Fish Tissue Average PCB Aroclor 1260 Concentration
November - December, 2002

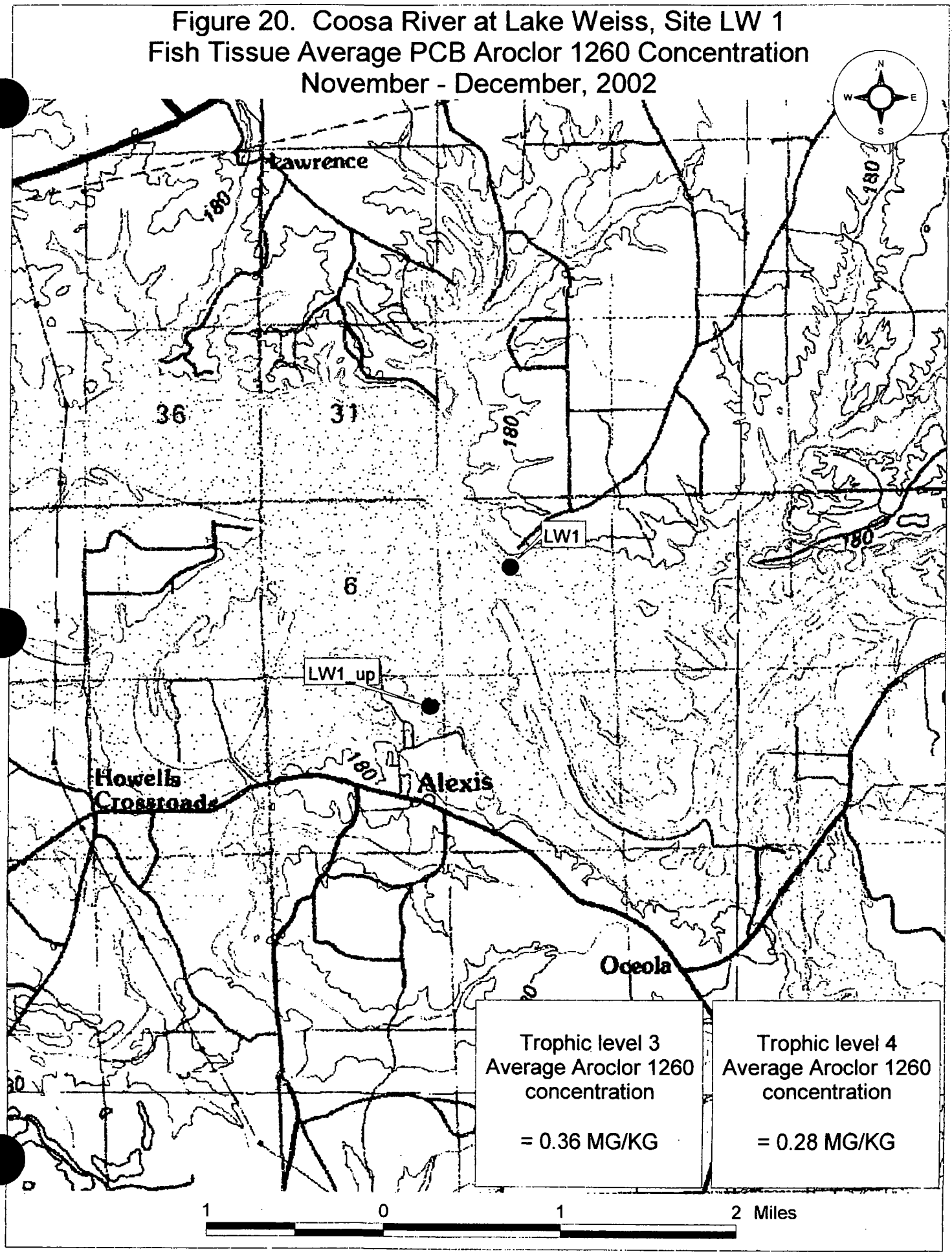


Figure 21. Coosa River at Lake Weiss, Site LW 2
Fish Tissue Average PCB Aroclor 1260 Concentration
November - December, 2002

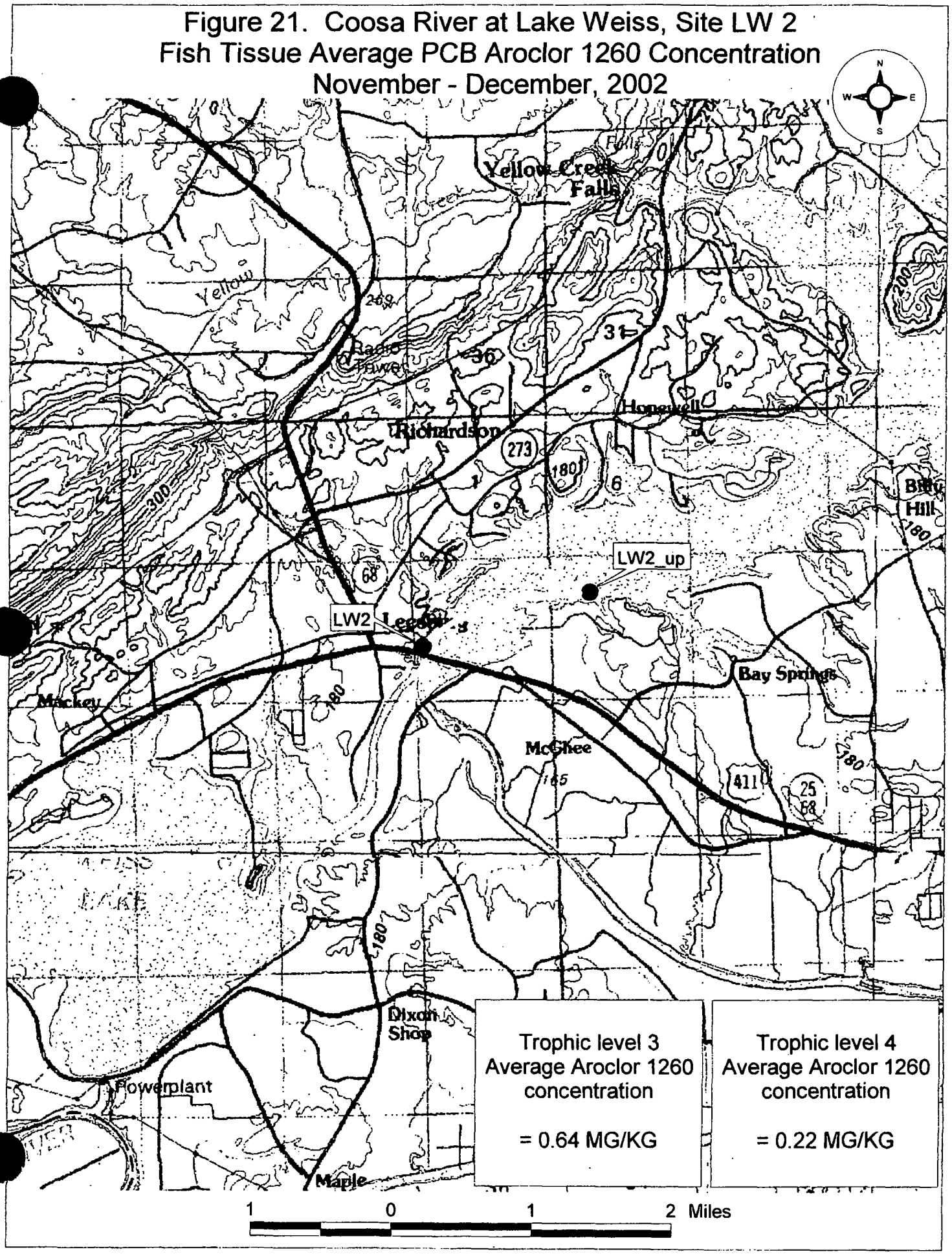


Figure 22. Coosa River at Upper Neely Henry Reservior, Site UNH
Fish Tissue Average PCB Aroclor 1260 Concentration
November - December, 2002

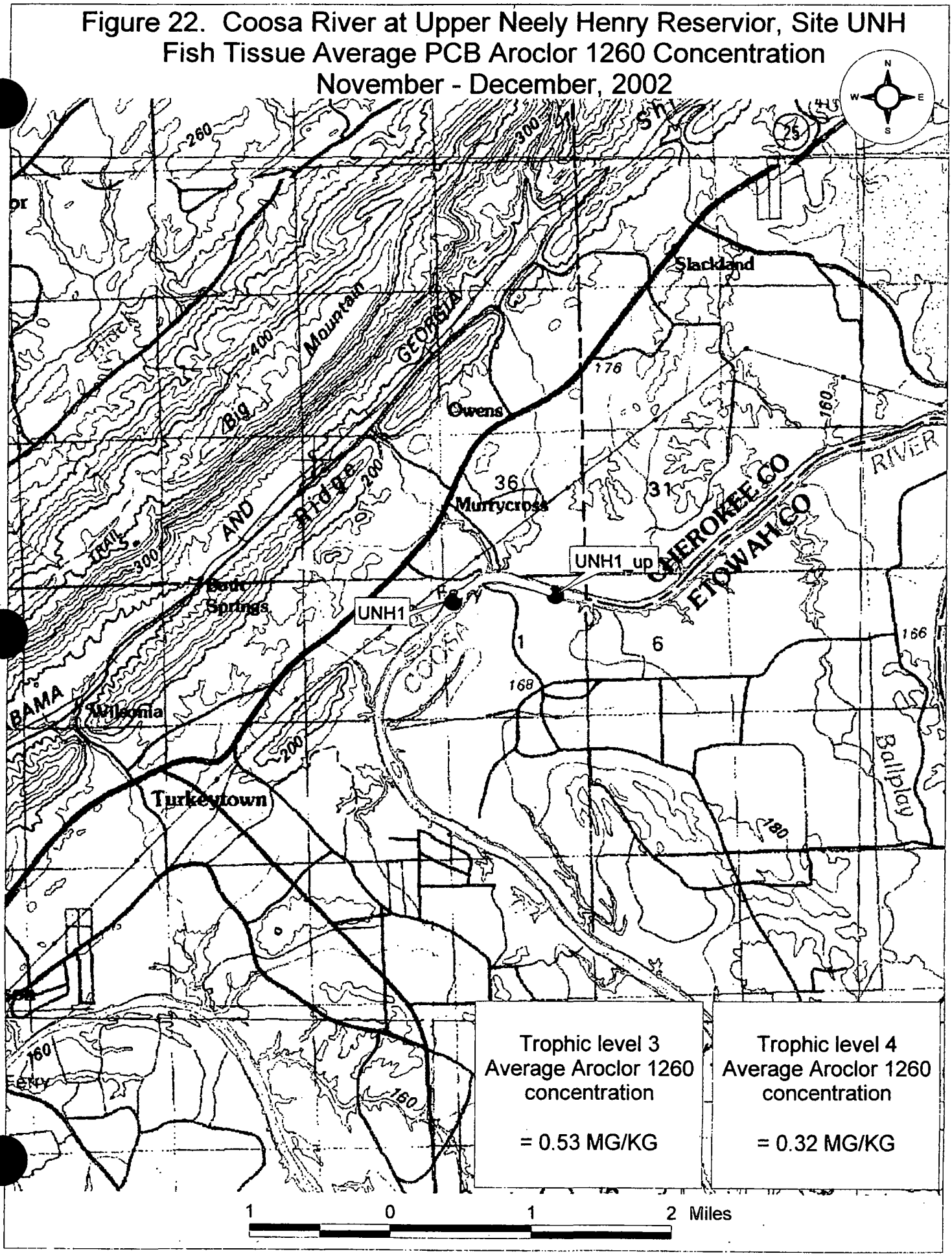


Figure 23. Coosa River at Logan Martin Reservior, Site LM
Fish Tissue Average PCB Aroclor 1260 Concentration
November - December, 2002

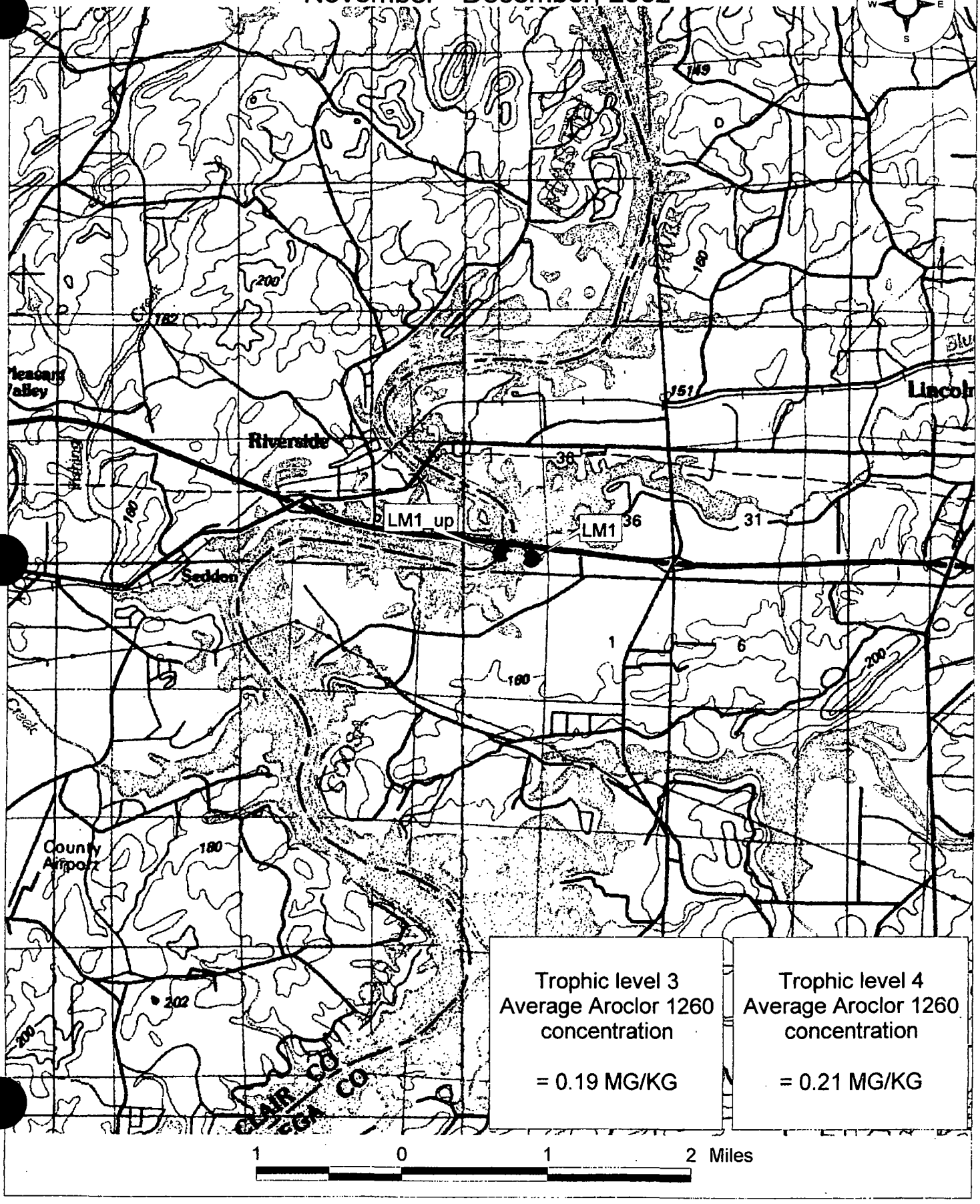
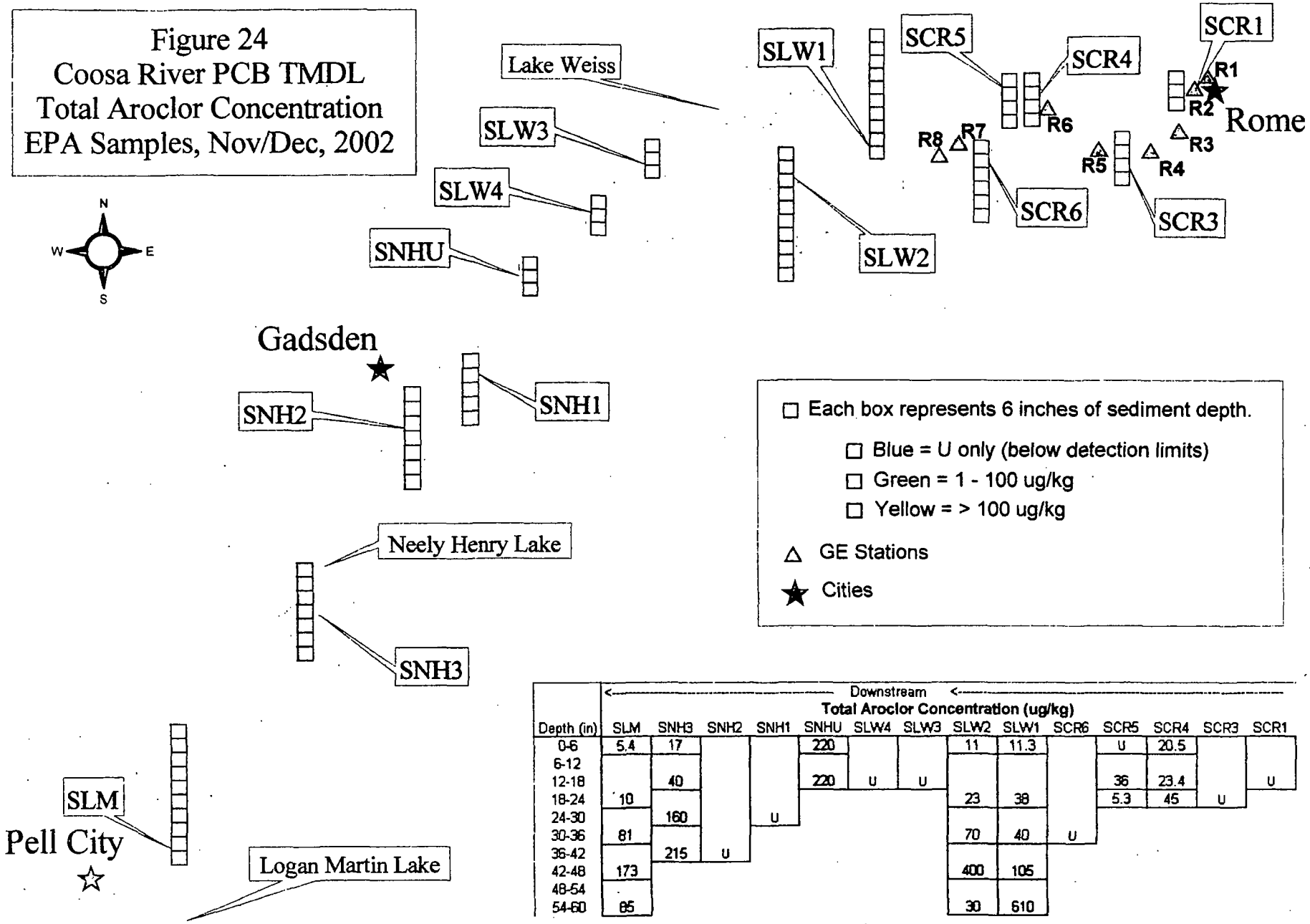


Figure 24
Coosa River PCB TMDL
Total Aroclor Concentration
EPA Samples, Nov/Dec, 2002



	Downstream													
	Total Aroclor Concentration (ug/kg)													
Depth (in)	SLM	SNH3	SNH2	SNH1	SNHU	SLW4	SLW3	SLW2	SLW1	SCR6	SCR5	SCR4	SCR3	SCR1
0-6	5.4	17			220			11	11.3		U	20.5		
6-12														
12-18		40			220	U	U				36	23.4		U
18-24	10							23	38		5.3	45	U	
24-30		160		U										
30-36	81							70	40	U				
36-42		215	U											
42-48	173							400	105					
48-54														
54-60	85							30	610					

don'cousripcb.apr

Figure 25.

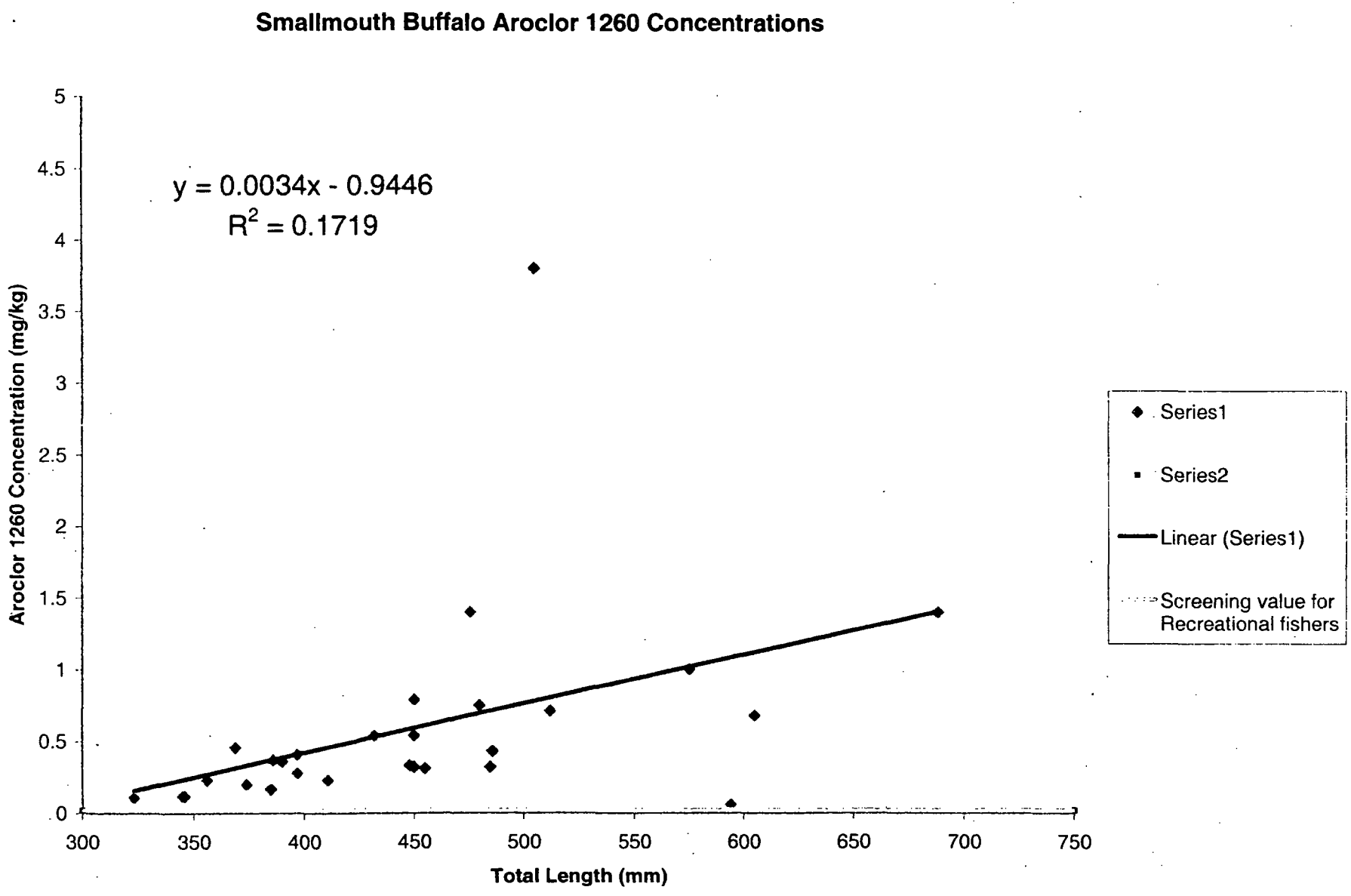

Smallmouth Buffalo Aroclor 1260 Concentrations
y = 0.0034x - 0.9446
R2 = 0.1719
Aroclor 1260 Concentration (mg/kg)
Total Length (mm)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
300
350
400
450
500
550
600
650
700
750
Series1
Series2
Linear (Series1)
Screening value for Recreational fishers

Figure 26

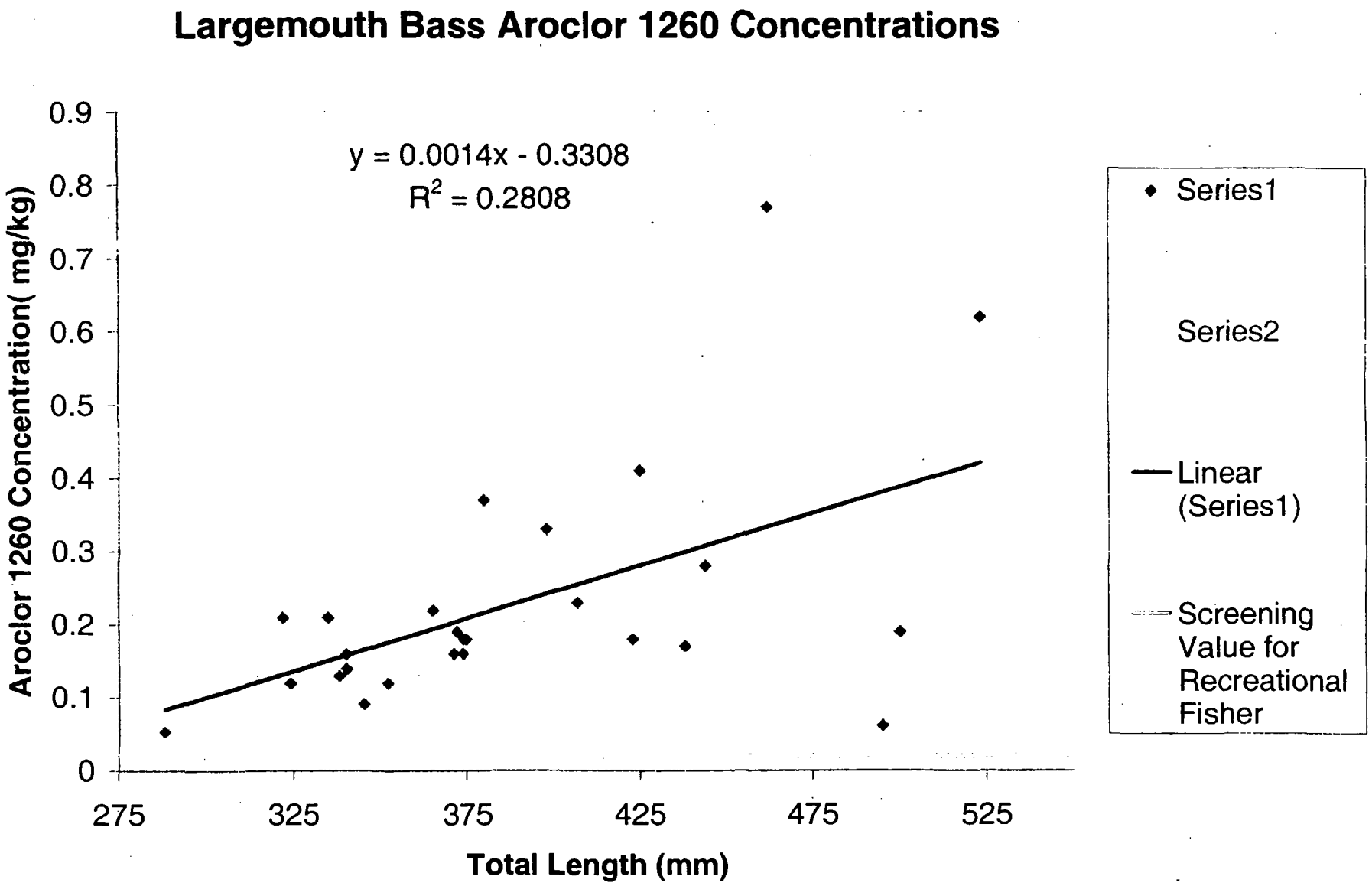

Largemouth Bass Aroclor 1260 Concentrations
y = 0.0014x - 0.3308
R2 = 0.2808
Aroclor 1260 Concentration(mg/kg)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
275
325
375
425
475
525
Total Length (mm)
Series1
Series2
Linear (Series1)
Screening Value for Recreational Fisher

Fig. 27 Mean Concentrations of Aroclor 1260 for All Trophic Level 4 Species by Station

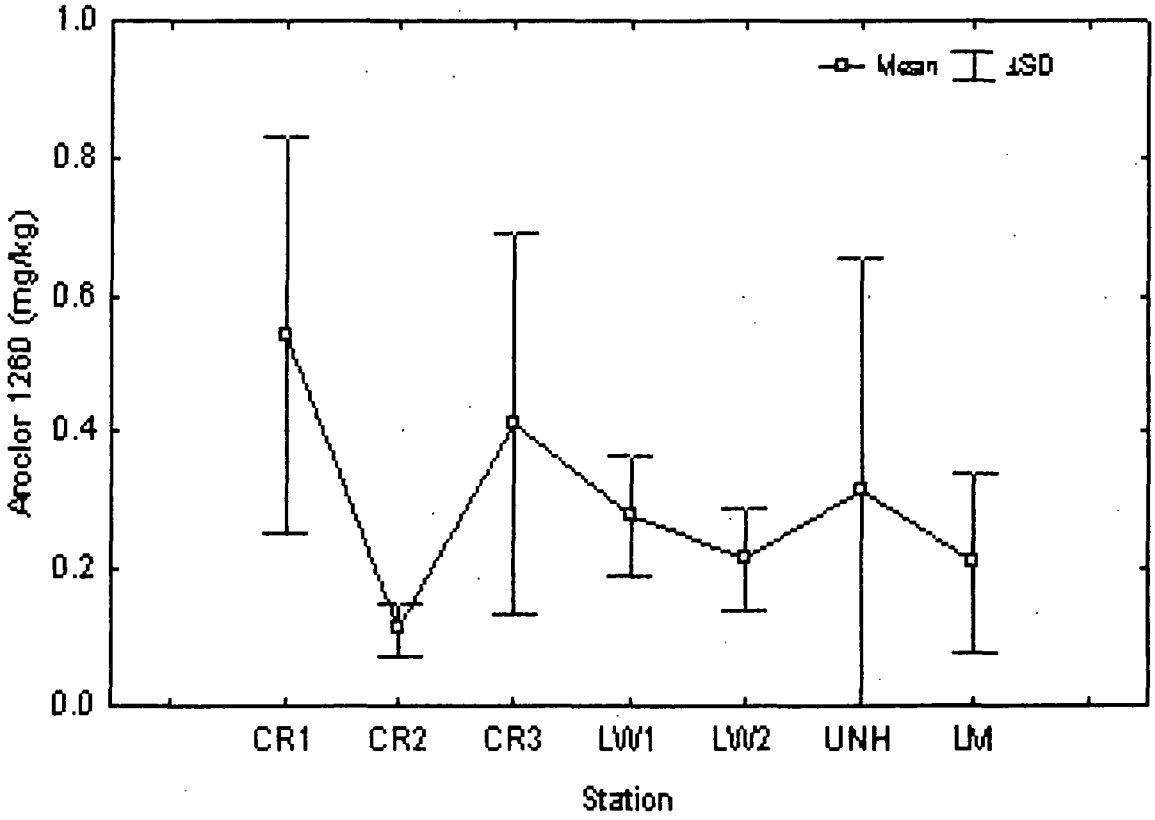
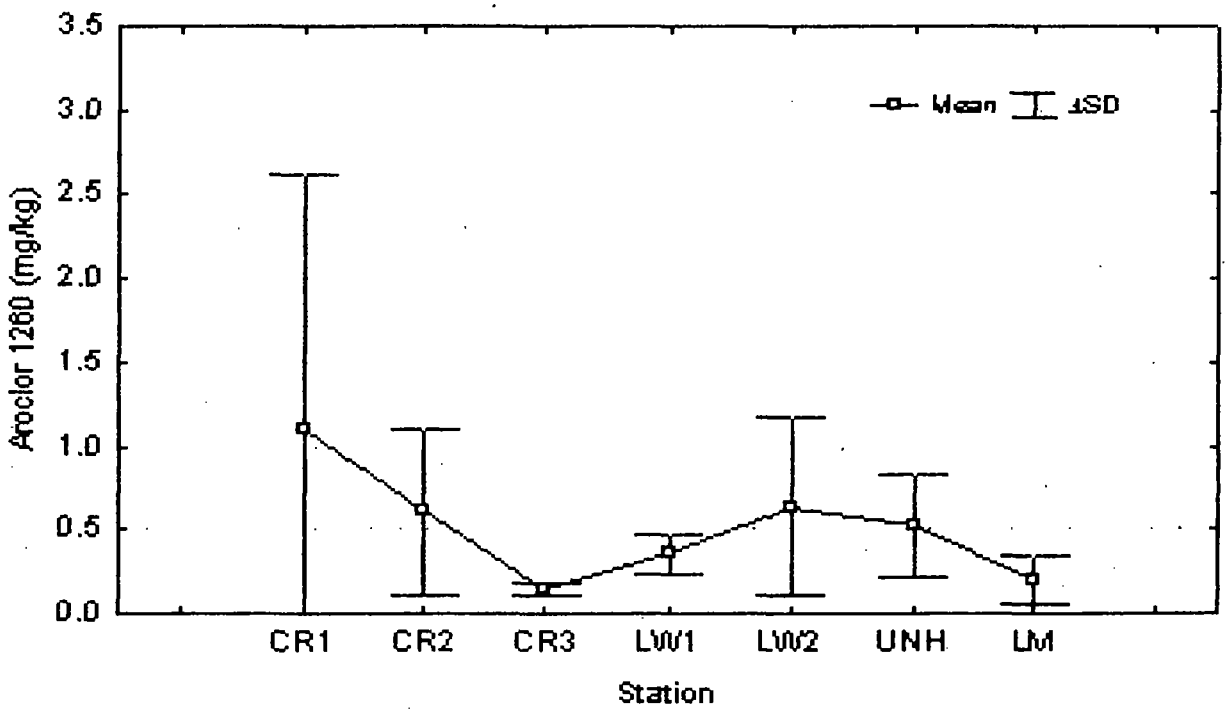



Fig. 28 Mean Concentrations of Aroclor 1260 for All Trophic Level 3 Species by Station