LAKE WEISS PCB SAMPLING

During the period August 18 - September 1, 1976, Lake Weiss, the Coosa River, Etowah River, Oostanaula River, and Dry Creek were sampled for PCB's. Samples consisted of sediments, ambient water, and fish, as presented in Tables 1, 2, and 3. Sampling locations are presented in Figure 1.

Sediment samples (Table 1) in the Coosa River and Lake Weiss ranged from non-detectable to 3.9 mg/Kg PCB's. PCB's were not detected in sediments of the Etowah River or the Oostanaula River upstream of Dry Creek. However, Dry Creek sediments contained 10.9 mg/Kg PCB's and the Oostanaula River downstream of Dry Creek contained 0.14 mg/Kg PCB's.

PCB's were observed in the three ambient water stations (Table 2) with concentrations ranging from 0.05 µg/l to 0.13 µg/l.

Results of fish samples are presented in Table 3.

As a matter of interest, the sediments in the Big Cypress Swamp, Florida (an area of no known contamination) contained a maximum of 0.13 mg/Kg PCB's. Maximum concentration of PCB's in fish, in the same area, was 0.12 mg/Kg.

TABLE 1

LAKE WEISS PCB SAMPLING
SEDIMENT SAMPLES

EPA Sta. #	Location (see map and schematic for specific locations)	Date sampled	Aroclor 1242 mg/Kg*	Aroclor 1254 mg/Kg*	Aroclor 1260 mg/Kg*	Total PCB's Mg/Kg
O-1	Oostanaula R.	9-1-76	ND	0.14	ND	0.14
O-2	Oostanaula R.	9-1-76	ND	ND	ND	ND
O-T-1	Dry Creek	9-1-76	ND	6.3	4.6	10.9
E-1	Etowah R.	9-1-76	ND	ND	ND	ND
E-2	Etowah R.	9-1-76	ND	ND	ND	ND
C-1	Coosa R.	9-1-76	ND	0.08	ND	0.08
C-2	Coosa R.	9-1-76	ND	0.65	0.35	1.00
C-3	Coosa R.	9-1-76	**	**	**	**
C-4	Coosa R.	8-31-76	ND	0.76	ND	0.76
C-5	Lake Weiss	8-31-76	0.32	1.2	ND	1.5
C-6	Lake Weiss	8-31-76	0.10	0.60	ND	0.70
C-7	Lake Weiss	8-31-76	ND	3.9	ND	3.9
C-8	Lake Weiss	8-31-76	**	**	**	**
C-9	Lake Weiss	8-31-76	ND	0.88	ND	0.88
C-5	Lake Weiss	8-19-76	ND	2.4	ND	2.4

* Calculated as dry weight basis.

** Not completed.

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TABLE 2

LAKE WEISS PCB SAMPLING
WATER SAMPLES

EPA Sta #	Location*	Date Sampled	Aroclor 1254 ug/l
C-5	Lake Weiss	8-19-76	0.13
C-9A	Lake Weiss	8-18-76	0.05
CBWI	Lake Weiss (Cedar Bluff Water Intake)	8-18-76	0.12

*See map and schematic for specific locations

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TABLE 3

LAKE WEISS PCB SAMPLING
FISH TISSUE

Location*	Date Sampled	Fish Species	Fish Live Weight lbs/ozs	Fillet Weight grm.	% Fat in Composite By Weight	Aroclor 1254 In Composite mg/Kg**
Lake Weiss Headwaters	8/19/76	Bass	0/15	53		
		Bass	1/0	42	0.10	0.87
		Bass	0/9	30		
		Carp	5/9	61		
		Carp	3/14.5	121	2.40	11.5
		Carp	2/11	15		
		Bluegill	0.4	10		
		Bluegill	0/3	9	0.34	1.8
		Bluegill	0/1.5	3		
Lake Weiss Middle Lake Area	8/18/76	Bass	0/10	66		
		Bass	0/13.5	108	0.24	1.6
		Bass	0/8	73		
		Bluegill	0/4	11		
		Bluegill	0/2	9	0.14	1.5
		Bluegill	0/2.5	8		
		Catfish	1/4	108		
		Catfish	0/15	98	2.50	40
		Catfish	0/4	19		
Lake Weiss Lower Lake Area	8/18/76	Bass	1/4	128		
		Bass	2/2	182	--	2.4
		Bass	0/15	115		
		Crappie	0/5.5	4[illegible]		

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TABLE 3
(Continued)

Location*	Date Sampled	Fish Species	Fish Live Weight lbs/ozs	Fillet Weight grm.	% Fat in Composite By Weight	Aroclor 1254 In Composite mg/Kg**
Lake Weiss	8/18/76	Crappie	0/14	64	--	9.6
Lower Lake Area		Crappie	0/3	28		
		Catfish	0/5.5	31		
		Catfish	0/7	46	--	38
		Catfish	0/6	35		

* See map and schematic for specific locations

** Calculated on wet weight basis

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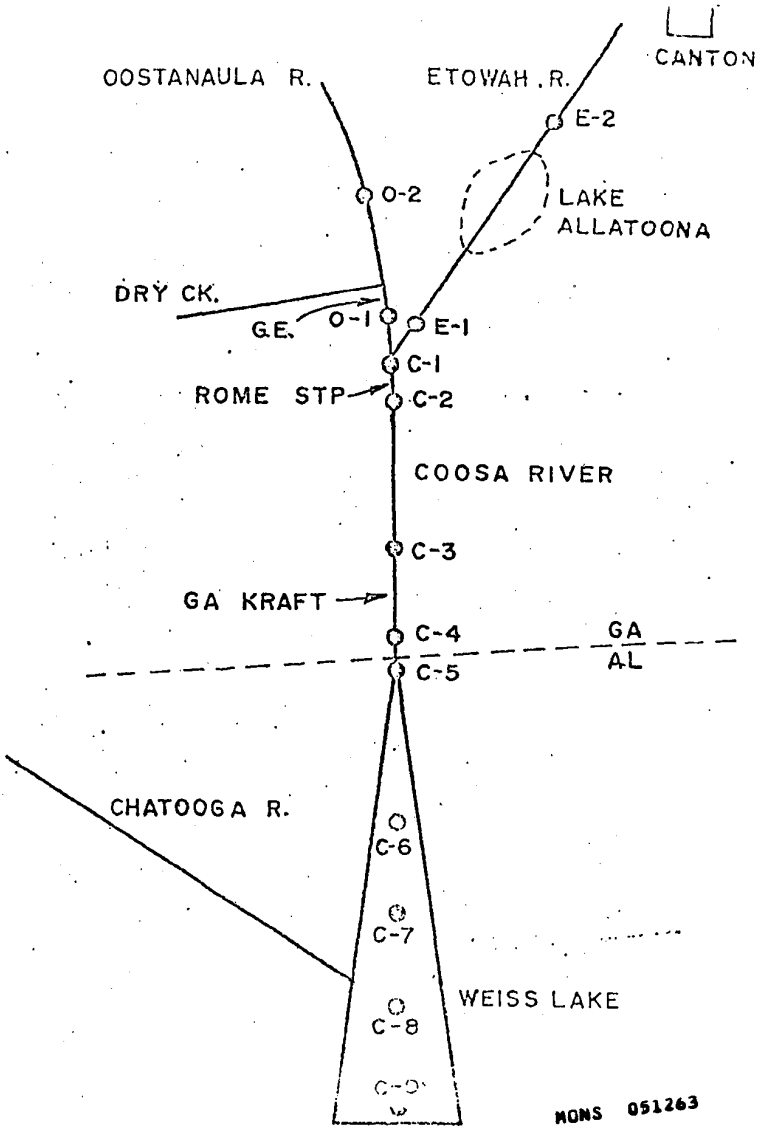
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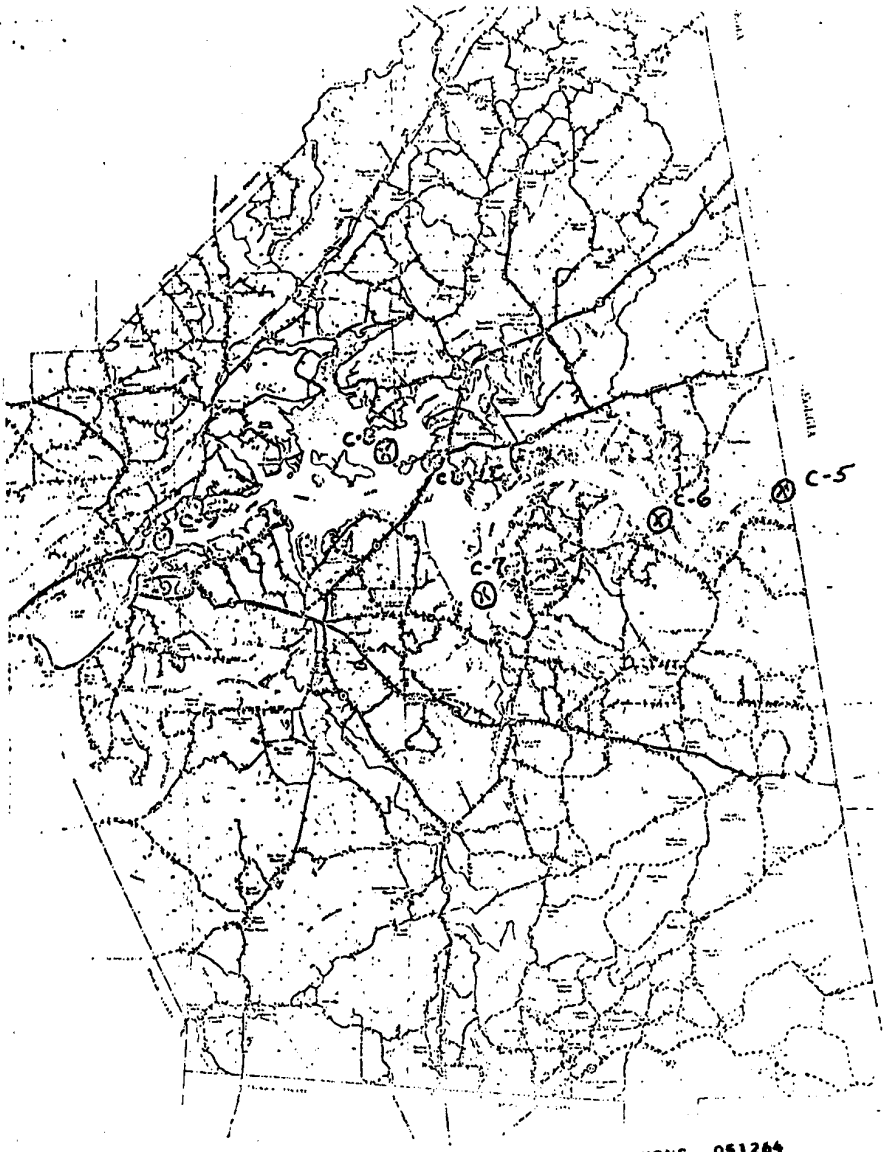
E-2
O-2
LAKE
ALLATOONA
DRY CK.
G.E.
O-1
E-1
C-1
ROME STP
C-2
COOSA RIVER
C-3
GA KRAFT
C-4
GA
AL
C-5
CHATOOGA R.
C-6
C-7
WEISS LAKE
C-8
C-9
MONS 051263



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PCB sediment

station	location	1973	1974	1975
0160020	Savannah River mouth of Augusta Canal	25	<6	
0411300	South River Snapping Shoals	380	Not Sampled	
0501000	Ocmulgee River Macon Water Intake	15	327	
0600600	Altamaha River US Highway 1	16	Not Sampled	
0904500	Withlacoochee River Ga Hwy 31	13	Not Sampled	
1110100	Flint River 1 mile Below Merck	14	Not Sampled	
1214000	Chattahoochee River Georgia Highway 92	260	83	
1215000	Chattahoochee River Ga Hwy 16	180	Not Sampled	
1217000	Chattahoochee River US Hwy 27	200	64	
1404400	Conasauga River FAS 1860 Near Resaca	410	74	
1423000	Coosawattaula River Calhoun Water Intake	27	Not Sampled	
1425000	Coosawattaula River Rome Water Intake	57	165	
1441000	Coosa River Mayo's Bar up stream of Lock	930	Not Sampled	
1441500	Coosa River Alabama State line	1800	253	
1501000	Little Tennessee River 0.2 mile upstream State line	9	Not Sampled	

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