SENT TO A.J. ZABINSKI
From Dr. Duke of
~~Boston~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES
BIOLOGICAL FIELD STATION-SABINE ISLAND
GULF BREEZE, FLORIDA 32561

OFFICIAL BUSINESS

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U.S. DEPARTMENT OF THE INTERIOR
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PCB
PESTICIDE
CONC
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BAY
&
RIVER

MONS 035978

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
[redacted]

LABORATORY: Biological Field Station
Sabine Island
Gulf Breeze, Florida 32561

Verified by: Alfred F. Holmes Jr.
Date: May 9, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
	1-5-68	Oyster	East Bay, Pensacola, Fla.	19	.015	--	--	--
	3-6-68	"	" " "	61	.015	--	--	--
	1-7-68	"	" " "	17	--	--	--	--
	1-8-68	"	" " "	223	tr	tr	--	--
	30-8-68	"	" " "	396	.020	--	--	--
	1-10-68	"	" " "	25	--	--	--	--
	30-10-68	"	" " "	188	tr	--	--	--
	4-12-68	"	" " "	361	--	--	--	--
	30-12-68	"	" " "	493	tr	tr	--	--
	30-1-69	"	" " "	72	.016	.014	tr	--
	29-2-69	"	" " "	217	.011	.010	--	--
	2-4-69	"	" " "	1	--	--	--	--
	2-4-69	"	Escambia Bay, Pensacola, Fla.	16L	Detected presence of polychlorinated biphenyl compound			
	5-5-69	"	East Bay, Pensacola, Fla.	99	.013	.013	--	--
	5-5-69	Water	" " " "	133L	--	--	--	--
	5-5-69	Oyster	Escambia Bay, Pensacola, Fla.	132L	Detected presence of polychlorinated biphenyl compound			
	5-5-69	Water	" " " "	134L	--	--	--	--

MONS 035979

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analyses supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Sta.
Gulf Breeze, Florida

ORATORY:

First collection of samples on Escambia River by BCF

Verified by: Alfred J. Wilson Jr.
Date: Aug 19, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
	8-7-69	Neritina	Sta. I (Hwy. 90)	27				#1254 - 1.9ppb
	"	Sediment	" " " "	28				#1254 - 1.7ppb
	"	Corbicula	Sta. II (S.R. 184)	29				--
	"	Sediment	" " " "	30				--
	"	Corbicula	Sta. III (McDavid)	31				--
	"	Campalona	" " "	32	.012	.036	.022	--
	"	Centrar-chidae	" " "	33	Mixture DDT and PCB			
	"	Fish (mixed)	" " "	34	Mixture DDT and PCB			
	"	Algae	" " "	35	tr	tr	tr	--
	"	Sediment	" " "	36	--	--	--	--
	"	Corbicula	Sta. IV (Century)	37	--	--	--	--
	"	Campalona	" " "	38	.018	.078	.14	--
	"	Sediment	" " "	39	tr	tr	tr	--
	"	H_2O	Sta. I (Hwy. 90)	109	pH 8.18	Sal. 0.6		#1254 approx 0.5 ppb
	"	"	Sta. II (S.R. 184)	110	7.82	0.0		--
	"	"	Sta. III (McDavid)	111	8.20	0.0		--
	"	"	Sta. IV (Century)	112	7.00	0.0		--

MONS 035980

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analyses supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida

RATORY:

Second collection of samples on Escambia River by BCF

Verified by:

Date:

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB #1254
	15-7-69	H_2O	10. Mouth of Escambia River	117				tr
	"	"	1. Hwy. 90	114				0.51 ppb
	"	"	5. Mouth of Thompson Bayou	119				0.49 ppb
	"	"	4. Thompson Bayou	123				0.38 ppb
	"	"	3. Power Station Canal	115				1.1 ppb
	"	"	7. Mouth Governors Bayou	121				0.77 ppb
	"	"	6. Up Governors Bayou	120				1.8 ppb
	"	"	9. White River	122				ND
	"	"	8. Abbve White River	116				3.5 ppb

MONS 035981

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analyses supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida

ORATORY:

Third collection of samples on Escambia River by BCF

Verified by: Alfred J. Wilson Jr.

Date: August 19 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB #1254
	17-7-69	H_2O	1. Hwy. 90	126				0.43 ppb
	"	"	10. S.R. 184	127				ND
	"	"	3. Just below Skimmer	128				5.8 ppb
	"	"	6. By Horse Shoe Lake	129				ND
	"	"	2. Just above White River	130				0.6 ppb
	"	"	4. Above Skimmer	131				ND
	"	"	5. Above Skimmer	132				ND
	"	"	7. Above Skimmer	133				ND
	"	"	8. Williams Ditch	134				ND
	"	"	9. Canal	135				ND

MONS 035982

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analyses supervised by Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida

ORATORY:

Fourth collection of samples on Escambia River by BCF

Verified by: Alfred J. Wilson Jr.
Date: August 19, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB #1254
	22-7-69	H_2O	5. Above Skimmer	139				ND
	"	"	4C Barge Canal	140				ND
	"	"	4B Outfall of spillway	141				ND
	"	"	4A Outfall 6" pipe	142				ND
	"	"	3A Skimmer	143				41. ppb
	"	"	3 Below Skimmer	144				2.1 ppb
	"	"	East River Head of Escambia Bay	145				tr

MONS 035983

PESTICIDE ANALYSIS REPORT
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Chemical analyses supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida

ORATORY:

Fifth collection of samples on Escambia River by BCF

Verified by: Alfred J. Wilson Jr.

Date: August 19, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
								PCB #1254
*	11-8-69	H_2O	pH 6.6 Skimmer Sal. 0.1‰	201				274. ppb
	"	"	Sub surface at Skimmer	202				184. ppb
	"	"	Hwy. 90	203				0.36 ppb
	"	"	300 yds. upstream from Skimmer	204				22. ppb
	"	"	White River	205				1.4 ppb

* A sample of this water was given to representatives of Monsanto Chemical Corp. Also, the sample was filtered through AA Millipore Filters (0.8µ) -- results of filters water 9.7 ppb of #1254.

MONS 035984

Samples (water, sediment, plankton) taken August 15, 1969 from Garcon point to ½ mile above Monsanto

No. Station	Temperature °C	Temperature °F	pH	Salinity o/oo		Residue of Aroclor 1254 water	Residue of Aroclor 1254 Sediment	Plankton
1 - Garcon point (50 yd. offshore)	27	80	7.8	12.8		ND	ND	
2 - mouth of mulatto bayou	28	82	8.0	11.6		ND	ND	
3 - mouth of Escambia River (Red buoy # 20)	29	84	7.2	3.8		.46 ppb	.14 ppm	
4 - Escambia River Hy. 90 Bridge	29	84	6.8	1.8		.42 ppb	1.4 ppm	
* Escambia River (mouth of white River)	water	sample	for	residue	only	.61 ppb	—	—
5 - Bulkhead ½ mile below Monsanto	37	99	6.8	0.2	{TOP 1 ft	71. ppb 6.6 ppb}	486. PPM	
6. Escambia River (mouth of bronx lake) ½ mile above Monsanto	27	80	6.5	0.0		ND	ND	

MONS 035985

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PESTICIDE MONITORING PROGRAM

Chemical analyses supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida 32561

TORY:

Seventh collection of samples at Escambia River by BCF

Verified by: Alfred J. Wilson Jr.
Date: August 29, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB #1254
	25-8-69	H_2O	Skimmer pH 7.2 Sal. 0.2‰ Temp. 36°C	254				1.7 ppb
	"	Sediment	Skimmer	253				44.

MONS 035986

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analysis supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida 32561

AY:

th collection of samples on Escambia River
BCF

Verified by: Alfred J. Wilson Jr.
Date: September 9, 1969

PARTS PER MILLION or µg/g

SAMPLE	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
			At Skimmer					PCB #1254
	3-9-69	H_2O	Temp. 36.5°C Salinity 0.6‰ pH 6.6	295				3.5 ppb
	"	Sediment		296				90.

MONS 035987

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analysis supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida 32561

JRY:

ch collection of samples on Escambia River
BCF

Verified by: Alfred J. Wilson Jr.
Date: September 15, 1969

PARTS PER MILLION or µg/g

SAMPLE	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB
	9-10-69	H_2O	Temp. 36 Salinity 0.4‰, pH 6.6	320				1254 2.5 ppb
	"	Sediment		321				1254 348.

MONS 035988

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Chemical analysis supervised
by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida 32561

AY:

ter samples from Escambia River collected
/ University of West Florida

Verified by: Alfred J. Wilson
Date: September 26, 1969
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

SAMPLE	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER PCB 1254
	28-8-69	Water	Escambia River	408				7.6 ppb
	12-9-69	"	" "	409				34.0 ppb
	17-9-69	"	" "	410				28.0 ppb
	24-9-69	"	" "	411				0.8 ppb

MONS 035989

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
PESTICIDE MONITORING PROGRAM

Chemical analysis supervised by: Alfred J. Wilson, Jr.
BCF Biological Field Station
Gulf Breeze, Florida 32561

:ORY:

eptember Oyster Monitor Samples

Verified by: Alfred J. Wilson Jr.
Date: Sept. 9 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
	3-9-69	Oyster	Trout Bayou	297				1254 1.1
	"	"	Escambia Bay	298				1254 1.0
	"	"	East Bay	299	.010	tr	.014	--

MONS 035990

PESTICIDE ANALYSIS REPORT
BUREAU OF COMMERCIAL FISHERIES
~~PESTICIDE MONITORING PROGRAM~~
GULF BREEZE, FLORIDA 32561

Chemical analysis supervised by: Alfred J Wilson, Jr

ATORY:

October Oyster Monitor Samples

Verified by: [signature]
Date: October 15, 1969

PARTS PER MILLION or µg/g

SAMPLE NUMBER	DATE COLLECTED d-m-y	DESCRIPTION	STATION LOCATION	LAB. NO.	DDE	DDD	DDT	OTHER
	30-9-69	Oyster	East Bay	16	tr	--	--	--
	"	"	Trout Bayou	17				1254 .44
		"	Escambia Bay	18				1254 .38

MONS 035991