

Watershed Summary Information

Accounting Unit Name: Mobile Bay-Tombigbee

State(s): AL

Political Boundaries: Mobile, Baldwin

Major Waterways: Fish R
Fowl R
Polecat Cr
Halls Mill Cr
Magnolia R

Number of Stations in Watershed: Tier1 - 31
Tier2 - 43
Tier3 - 7



Figure 41. Watershed Location Map

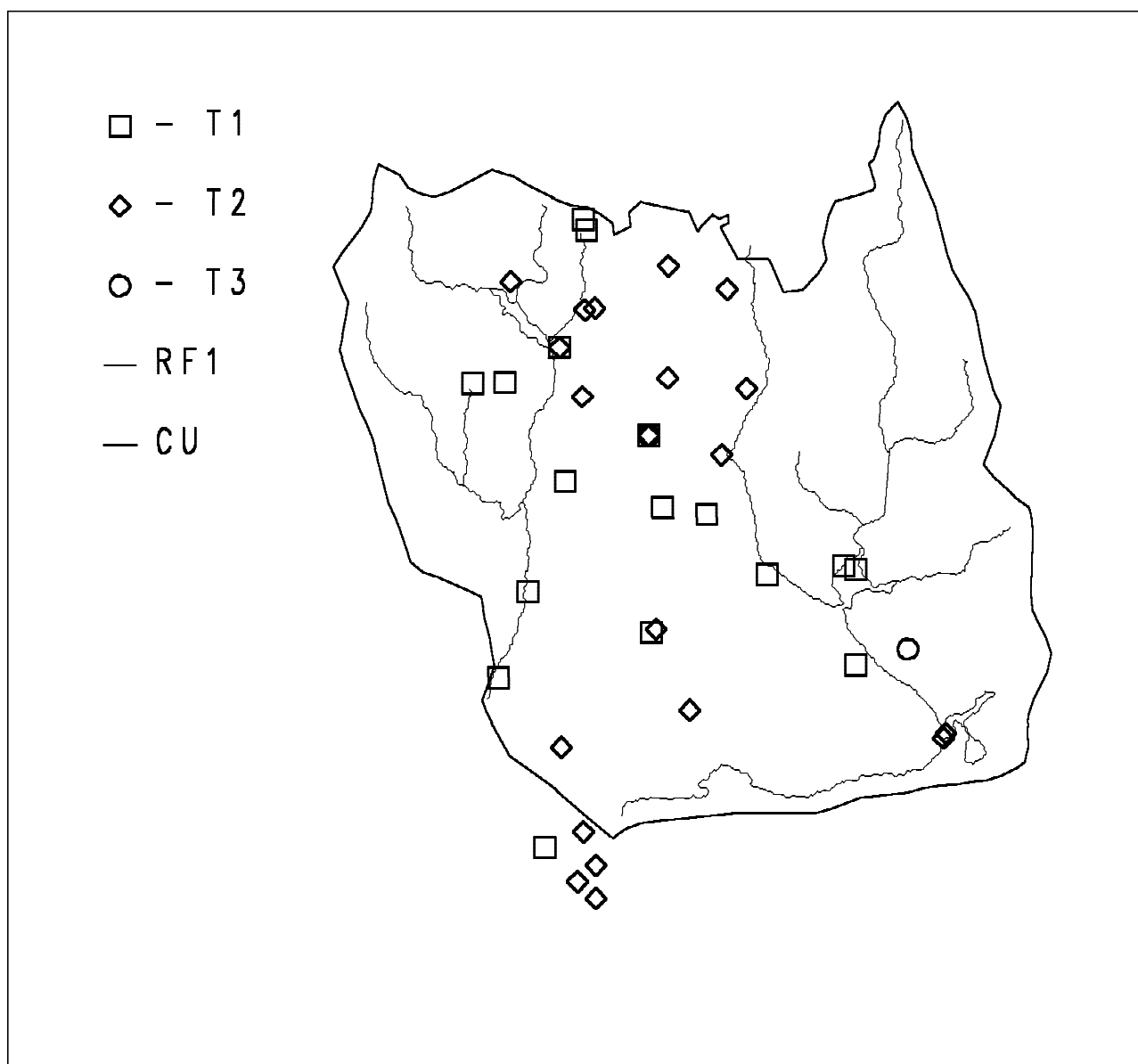


Figure 42. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **COSED** Agency: **NS&T**
 Monitoring Program: **NOAA/National Status and Trends**
 Num. of Stations: 7 Date Range: 1984-90

Source: **EMAP-LA** Agency: **EMAPLA**
 Monitoring Program: **EMAP-LA Province**
 Num. of Stations: 5 Date Range: 1991-92

Source: **GOM** Agency: **ADEM (MOBILE)**
 Monitoring Program: **ADEM (Mobile)**
 Num. of Stations: 22 Date Range: 1990

Source: **ODES** Agency: **AL**
Monitoring Program: **Alabama**
Num. of Stations: 2 Date Range: 1986-88

Source: **REGION 4** Agency: **USACE, SAVANNAH**
Monitoring Program: **USACE, Savannah**
Num. of Stations: 30 Date Range: 1981

Source: **REGION 4** Agency: **USFWS**
Monitoring Program: **USFWS**
Num. of Stations: 11 Date Range: 1988

Source: **SEACOE** Agency: **NOAA84**
Monitoring Program: **Benthic Surveillance 1984**
Num. of Stations: 3 Date Range: 1984

Source: **STORET** Agency: **21FLA**
Monitoring Program: **Fla Dept Environmental Regulation (Protection) Water, Sediment & Tissue Data**
Num. of Stations: 1 Date Range: 1981

Chemicals Responsible for Sampling Station Classification as Tier 1 or Tier 2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Chromium	70	36	.	36	.	36	.	.
Mercury	70	25	11	14	11	14	.	.
Copper	69	24	.	24	.	24	.	.
Cadmium	69	22	.	22	.	20	.	2
Arsenic	59	19	3	16	3	14	.	2
Benzo(a)pyrene	55	19	.	19	.	1	.	19
Dibenzo(a,h)anthracene	55	18	.	18	.	15	.	8
Silver	47	17	10	7	10	7	.	.
Zinc	70	16	.	16	.	15	.	1
DDT	52	15	1	14	1	14	.	4
Polychlorinated biphenyls	46	8	2	6	.	.	2	6
Nickel	47	8	.	8	.	8	.	.
Lead	69	6	.	6	.	6	.	.
Naphthalene	50	5	3	2	3	2	.	.
BHC	45	5	.	5	.	5	.	.
Anthracene	49	4	1	3	1	3	.	.
Benzo(a)anthracene	56	4	.	4	.	4	.	1
Chrysene	56	4	.	4	.	4	.	.
Fluorene	47	3	1	2	1	2	.	.
Fluoranthene	56	3	.	3	.	3	.	.
Pyrene	58	3	.	3	.	3	.	.
Phenanthrene	53	2	1	1	1	1	.	.
Benzo(b)fluoranthene	52	2	.	2	.	.	.	2

Classifying Parameter	Number of Stations							
	All Parameters				Aquatic Life		Human Health	
	Total	T.1&2	Tier1	Tier2	Tier1	Tier2	Tier1	Tier2
Dieldrin	45	2	.	2	.	.	.	2
SEM_est	5	2	.	2	.	2	.	.
Acenaphthylene	42	1	.	1	.	1	.	.
Chlordane	48	1	.	1	.	1	.	1
HMW_PAHs	8	1	.	1	.	1	.	.
LMW_PAHs	7	1	.	1	.	1	.	.

Sediment Chemistry Data: Chemical Summary

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Acenaphthene	44	0.95	0.00	7	18.52	1.92
Acenaphthylene	42	0.97	0.00	7	26.29	1.11
Acrylonitrile	30	0.00	0.00	0	.	.
Aldrin	41	0.08	0.00	3	1.37	0.63
Anthracene	49	31.52	0.00	15	1200.00	3.46
Antimony	42	150.00	0.00	9	1650.00	300.00
Arsenic	59	11772.64	4900.00	39	106000.0	700.00
Benzene	30	0.00	0.00	0	.	.
Benzo(a)anthracene	54	41.35	0.00	22	1600.00	7.70
Benzo(a)pyrene	54	23.68	0.00	22	640.00	9.72
Benzo(b)fluoranthene	52	25.49	0.00	21	430.00	10.90
Benzo(ghi)perylene	51	16.18	0.00	20	360.00	10.00
Benzo(k)fluoranthene	50	7.59	0.00	19	130.00	6.88
Biphenyl	11	2.61	1.60	7	12.50	1.50
Bis(2-ethylhexyl)phthalate	30	0.00	0.00	0	.	.
Bromophenyl phenyl ether, 4-	30	0.00	0.00	0	.	.
Butyl benzyl phthalate	30	0.00	0.00	0	.	.
BHC	155	0.02	0.00	9	0.50	0.02
Cadmium	69	596.41	300.00	55	6000.00	30.00
Chlordane	60	0.87	0.00	12	30.00	0.10
Chromium	70	54152.43	58500.00	70	120500.0	1900.00
Chrysene	54	65.99	0.00	21	2500.00	8.55
Copper	69	13918.62	14116.00	66	66000.00	500.00
Di-n-butyl phthalate	30	0.00	0.00	0	.	.
Di-n-octyl phthalate	30	0.00	0.00	0	.	.
Dibenzo(a,h)anthracene	56	6.79	0.00	18	70.00	3.30
Dibromochloromethane	30	0.00	0.00	0	.	.
Dichlorobenzene, 1,2-	30	0.00	0.00	0	.	.
Dichlorobenzene, 1,3-	30	0.00	0.00	0	.	.
Dichlorobenzene, 1,4-	30	0.00	0.00	0	.	.
Dichloroethane 1,1-	30	0.00	0.00	0	.	.
Dichloroethane 1,2-	30	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Dichloroethene, trans-1,2-	30	0.00	0.00	0	.	.
Dichloromethane	30	0.00	0.00	0	.	.
Dichloropropane, 1,2-	30	0.00	0.00	0	.	.
Dieldrin	43	0.04	0.00	4	0.75	0.04
Diethyl phthalate	30	0.00	0.00	0	.	.
Dimethyl phthalate	30	0.00	0.00	0	.	.
DDT	188	1.03	0.00	68	30.00	0.01
Endosulfan, alpha-	36	0.00	0.00	0	.	.
Endosulfan, beta-	36	0.00	0.00	0	.	.
Endrin	36	0.00	0.00	0	.	.
Ethylbenzene	30	0.00	0.00	0	.	.
Fluoranthene	54	62.47	0.00	22	2200.00	10.95
Fluorene	47	27.94	0.00	12	1200.00	2.26
Heptachlor	39	0.00	0.00	0	.	.
Heptachlor epoxide	42	0.04	0.00	3	0.72	0.32
Hexachlorobenzene	74	0.02	0.00	6	0.61	0.02
Hexachlorobutadiene	30	0.00	0.00	0	.	.
Hexachloroethane	30	0.00	0.00	0	.	.
HMW_PAHs	8	175.78	76.25	6	909.09	0.92
Indeno(1,2,3-cd)pyrene	41	5.16	0.00	10	49.80	8.44
Isophorone	30	0.00	0.00	0	.	.
Lead	69	16240.20	16397.00	69	100000.0	650.00
LMW_PAHs	7	158.35	29.36	5	1008.56	2.30
Malathion	1	0.00	0.00	0	.	.
Mercury	70	280.89	54.70	40	2550.00	10.00
Methoxychlor	1	0.00	0.00	0	.	.
Methylnaphthalene, 2-	7	3.55	2.75	4	16.00	2.75
Mirex/Dechlorane	9	0.05	0.00	3	0.19	0.13
Naphthalene	50	111.58	0.00	20	1960.00	3.99
Nickel	47	11599.98	6625.00	47	40400.00	625.00
Nitrosodiphenylamine, N-	30	0.00	0.00	0	.	.
Pentachlorophenol	30	0.00	0.00	0	.	.
Phenanthrene	53	90.17	0.00	21	4200.00	6.39
Phenol	30	0.00	0.00	0	.	.
Polychlorinated biphenyls	231	0.23	0.00	10	8.57	0.89
Pyrene	56	63.75	0.00	24	2200.00	10.00
Silver	47	2615.23	96.00	34	33000.00	40.00
SEM_est	5	1.91	2.62	5	3.01	0.07
Tetrachloroethane, 1,1,2,2-	30	0.00	0.00	0	.	.
Tetrachloroethene	30	0.00	0.00	0	.	.
Tetrachloromethane	30	0.00	0.00	0	.	.
Toluene	30	0.00	0.00	0	.	.
Toxaphene	36	0.00	0.00	0	.	.
Tribromomethane/Bromoform	30	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Trichloroethane, 1,1,1-	30	0.00	0.00	0	.	.
Trichloroethane, 1,1,2-	30	0.00	0.00	0	.	.
Trichloroethene	30	0.00	0.00	0	.	.
Trichlorofluoromethane	30	0.00	0.00	0	.	.
Trichloromethane/Chloroform	30	0.00	0.00	0	.	.
Zinc	70	86882.86	79500.00	70	847500.0	3000.00

Tissue Residue Data: Chemical Summary

Tissue Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Aldrin	2	0.00	0.00	0	.	.
Arsenic	14	7833.57	6050.00	12	16000.00	3500.00
Benzo(a)anthracene	6	59.63	55.90	6	98.10	25.60
Benzo(a)pyrene	1	23.50	23.50	1	23.50	23.50
BHC	14	1.32	1.31	12	3.39	0.41
Cadmium	14	2596.48	2490.00	13	4570.00	0.70
Chlordane	14	7.88	7.37	12	19.76	3.53
Chromium	14	655.75	390.00	13	1760.00	0.50
Chrysene	8	94.81	65.40	8	216.70	23.00
Copper	14	93857.49	97500.00	13	187000.0	4.80
Dibenzo(a,h)anthracene	1	21.80	21.80	1	21.80	21.80
Dieldrin	14	6.78	4.75	12	16.76	2.71
DDT	76	45.47	23.68	69	247.14	0.52
Endosulfan, alpha-	2	0.00	0.00	0	.	.
Endrin	2	0.00	0.00	0	.	.
Fluoranthene	10	156.62	77.40	10	502.90	21.00
Heptachlor	5	0.66	0.60	5	0.91	0.50
Heptachlor epoxide	14	3.38	2.93	12	9.39	1.00
Hexachlorobenzene	2	0.00	0.00	0	.	.
Lead	14	349.21	356.50	12	680.00	200.00
Manganese	12	13491.67	11150.00	12	26000.00	7700.00
Mercury	14	63.50	68.00	13	160.00	0.03
Mirex/Dechlorane	9	5.45	4.35	9	17.80	1.58
Nickel	14	1230.06	1085.00	13	2400.00	0.90
Polychlorinated biphenyls	11	109.92	102.20	11	229.40	2.20
Pyrene	10	133.24	48.90	10	418.20	21.70
Selenium	14	1738.57	1840.00	12	2780.00	1390.00
Silver	14	1707.22	1995.00	13	2300.00	1.01
Tin	3	67.00	0.99	2	200.00	0.99
Toxaphene	2	0.00	0.00	0	.	.
Zinc	14	1379429	1001500	13	4430000	12.50

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-LA Province							
30.2140	88.0540	91-07-29	Ampelisca Abdita	S	83.00	11.00	Yes
30.2850	87.7523	91-08-16	Ampelisca Abdita	S	11.98	11.00	no
30.3018	87.9657	91-08-18	Ampelisca Abdita	S	2.00	2.00	no
30.3603	87.9942	92-07-29	Ampelisca Abdita	S	13.97	1.00	no
30.5903	88.0535	91-08-22	Ampelisca Abdita	S	12.98	2.00	no