

Watershed Summary Information

Accounting Unit Name: Florida Panhandle Coastal

State(s): AL FL

Political Boundaries: Baldwin, Escambia

Major Waterways: Elevenmile Cr
Bayou Marcus Cr
Wolf Cr
Intracoastal Waterway

Number of Stations in Watershed: Tier1 - 10
Tier2 - 24
Tier3 - 4

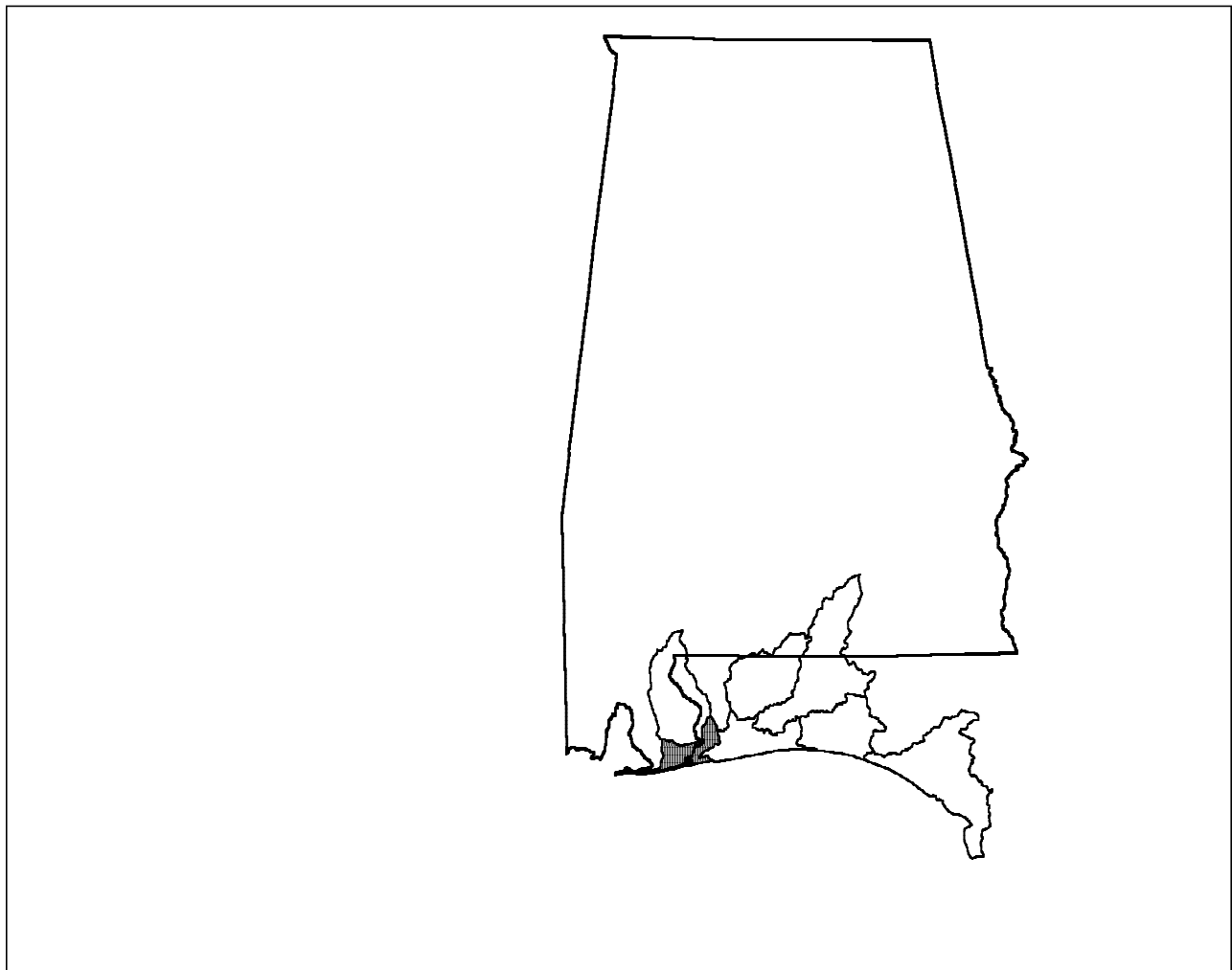


Figure 39. Watershed Location Map

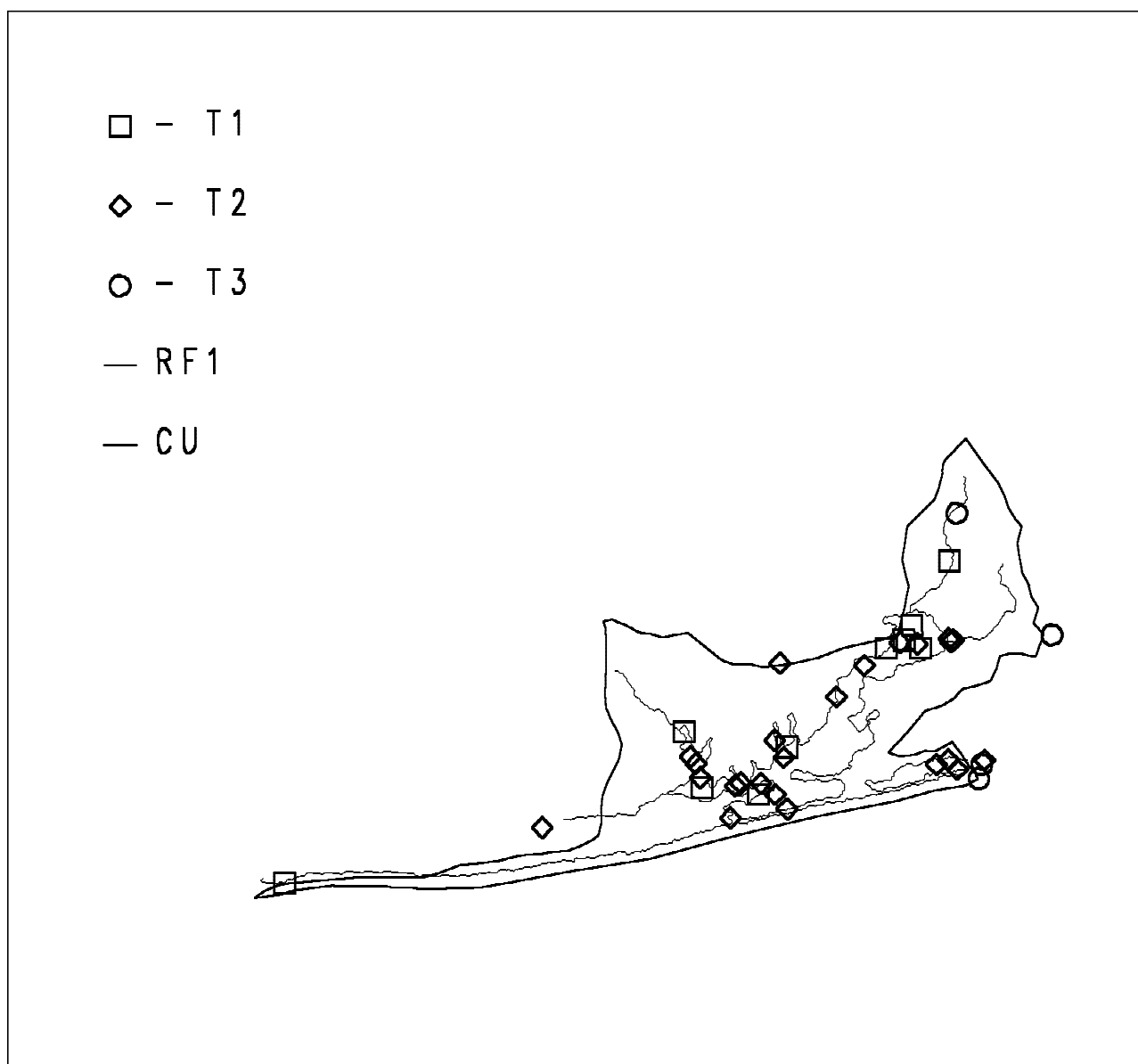


Figure 40. Major Waterways and Location of Sampling Stations

Data Source(s) Used in Evaluation

Source: **EMAP-LA** Agency: **EMAPLA**
 Monitoring Program: **EMAP-LA Province**
 Num. of Stations: 7 Date Range: 1991-92

Source: **GOM** Agency: **ADEM (MOBILE)**
 Monitoring Program: **ADEM (Mobile)**
 Num. of Stations: 13 Date Range: 1990

Source: **REGION 4** Agency: **DEPT OF NAVY**
 Monitoring Program: **Dept of Navy**
 Num. of Stations: 2 Date Range: 1984

Source: **REGION 4** Agency: **FL DER**
 Monitoring Program: **FL DER**
 Num. of Stations: 11 Date Range: 1985-89

Source: **STORET** Agency: **11BIOACC**
 Monitoring Program: **USEPA National Bioaccumulation Study**
 Num. of Stations: 1 Date Range: 1988

Source: **STORET** Agency: **21FLA**
 Monitoring Program: **Fla Dept Environmental Regulation (Protection) Water, Sediment & Tissue Data**
 Num. of Stations: 4 Date Range: 1980-89

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
Mercury	37	16	8	8	8	8	.	.
Chromium	37	11	.	11	.	11	.	.
Arsenic	29	9	.	9	.	9	.	.
Benzo(a)pyrene	11	5	.	5	.	2	.	5
Polychlorinated biphenyls	13	4	1	3	.	1	1	3
Cadmium	37	4	.	4	.	4	.	.
Copper	36	4	.	4	.	4	.	.
Nickel	19	4	.	4	.	4	.	.
Pyrene	11	3	1	2	1	2	.	.
Fluorene	11	3	.	3	.	3	.	.
Lead	37	3	.	3	.	3	.	.
LMW_PAHs	7	3	.	3	.	3	.	.
Methylnaphthalene, 2-	8	3	.	3	.	3	.	.
Benzo(b)fluoranthene	10	2	.	2	.	1	.	2
Chrysene	10	2	.	2	.	2	.	.
Fluoranthene	12	2	.	2	.	2	.	.
SEM_est	7	2	.	2	.	2	.	.
Dioxins	1	1	1	.	.	.	1	.
HMW_PAHs	7	1	.	1	.	1	.	.
Naphthalene	11	1	.	1	.	1	.	.
Phenanthrene	9	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	11	0.00	0.00	0	.	.
Acenaphthylene	11	0.43	0.00	1	4.76	4.76
Aldrin	14	0.00	0.00	0	.	.

Sediment Parameter	Total Observations			Detected Observations		
	Num.	Mean (ppb)	Median (ppb)	Num.	Max (ppb)	Min (ppb)
Anthracene	9	2.06	0.00	3	7.75	4.27
Antimony	8	163.75	55.00	4	600.00	110.00
Arsenic	34	6327.94	2780.00	30	34500.00	440.00
Benzo(a)anthracene	9	5.33	0.00	3	24.01	11.50
Benzo(a)pyrene	11	62.86	0.00	5	366.67	11.59
Benzo(b)fluoranthene	10	49527.22	8.09	5	495000.0	16.17
Benzo(ghi)perylene	11	83.11	1.47	7	500.00	0.72
Benzo(k)fluoranthene	9	63.27	0.00	4	495.00	12.04
Biphenyl	7	8.00	3.25	4	20.51	3.25
BHC	55	0.01	0.00	7	0.14	0.01
Cadmium	44	316.68	125.00	37	4000.00	0.04
Chlordane	47	0.02	0.00	7	0.29	0.01
Chromium	42	30524.17	14405.00	39	137000.0	6.00
Chrysene	10	141.75	7.41	7	675.00	0.83
Copper	42	8832.69	7700.00	41	28000.00	0.85
Dibenzo(a,h)anthracene	7	0.79	0.00	1	5.51	5.51
Dieldrin	14	0.00	0.00	0	.	.
DDT	90	0.02	0.00	7	1.02	0.01
Endosulfan, alpha-	14	0.00	0.00	0	.	.
Endosulfan, beta-	14	0.00	0.00	0	.	.
Endrin	12	0.00	0.00	0	.	.
Fluoranthene	12	84.96	19.13	11	315.00	0.78
Fluorene	11	10.61	0.00	3	50.63	25.27
Heptachlor	14	0.00	0.00	0	.	.
Heptachlor epoxide	13	0.00	0.00	0	.	.
Hexachlorobenzene	12	0.00	0.00	0	.	.
HMW_PAHs	7	362.96	367.86	7	924.16	4.34
Indeno(1,2,3-cd)pyrene	7	7.23	0.00	3	26.13	10.64
Lead	44	11784.51	7800.00	43	46000.00	0.70
LMW_PAHs	7	906.70	87.48	7	2479.99	4.16
Malathion	5	0.00	0.00	0	.	.
Mercury	42	310.14	98.00	37	1210.00	0.02
Methoxychlor	5	0.00	0.00	0	.	.
Methylnaphthalene, 2-	8	19.42	7.32	5	68.21	0.94
Mirex/Dechlorane	12	0.00	0.00	0	.	.
Naphthalene	11	27.77	1.40	7	266.67	0.78
Nickel	20	7796.25	5775.00	18	21750.00	4.60
Phenanthrene	9	50.82	13.75	8	270.00	0.51
Polychlorinated biphenyls	70	0.62	0.00	7	36.00	0.18
Pyrene	11	487.83	45.36	10	3000.00	8.58
Silver	10	32.01	20.00	9	140.00	0.05
SEM_est	7	0.64	0.54	7	1.76	0.12
Toxaphene	14	0.00	0.00	0	.	.
Zinc	43	38761.35	31500.00	41	111000.0	2.55

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	1	2.30	2.30	1	2.30	2.30
Biphenyl	1	0.00	0.00	0	.	.
BHC	4	0.00	0.00	0	.	.
Cadmium	1	0.00	0.00	0	.	.
Chlordane	4	0.00	0.00	0	.	.
Chlorpyrifos/Dursban	1	0.00	0.00	0	.	.
Chromium	1	0.30	0.30	1	0.30	0.30
Copper	1	0.00	0.00	0	.	.
Dicofol/Kelthane	1	0.00	0.00	0	.	.
Dieldrin	3	0.00	0.00	0	.	.
Dioxins	8	0.01	0.01	8	0.03	0.01
DDT	13	3.88	0.00	3	23.20	8.31
Endosulfan, alpha-	2	0.00	0.00	0	.	.
Endrin	3	0.00	0.00	0	.	.
Heptachlor	1	0.00	0.00	0	.	.
Heptachlor epoxide	3	0.88	0.00	1	2.65	2.65
Hexachlorobenzene	3	0.00	0.00	0	.	.
Hexachlorobutadiene	1	0.00	0.00	0	.	.
Isopropalin	1	0.00	0.00	0	.	.
Lead	1	0.00	0.00	0	.	.
Mercury	1	50.00	50.00	1	50.00	50.00
Methoxychlor	1	0.00	0.00	0	.	.
Mirex/Dechlorane	3	2.97	4.10	2	4.80	4.10
Nickel	1	0.00	0.00	0	.	.
Pentachlorobenzene	1	0.00	0.00	0	.	.
Pentachloronitrobenzene/Quin	1	0.00	0.00	0	.	.
Polychlorinated biphenyls	3	52.27	9.60	3	144.30	2.90
Selenium	1	2.80	2.80	1	2.80	2.80
Silver	1	0.00	0.00	0	.	.
Tetrachlorobenzene, 1,2,4,5-	1	0.00	0.00	0	.	.
Tin	1	1.10	1.10	1	1.10	1.10
Toxaphene	2	0.00	0.00	0	.	.
Trichlorobenzene, 1,2,4-	1	0.00	0.00	0	.	.
Trifluralin/Treflan	1	0.00	0.00	0	.	.
Zinc	1	11.80	11.80	1	11.80	11.80

Biotoxicity Data

Lat.	Long.	Date	Species Name	Phase	% Mortality		Sign.
					Test	Control	
Monitoring Program: EMAP-LA Province							
30.2867	87.4998	91-08-14	Ampelisca Abdita	S	7.00	2.00	no
30.2992	87.5115	92-07-12	Ampelisca Abdita	S	4.96	8.00	no
30.3067	87.5513	91-08-16	Ampelisca Abdita	S	18.04	14.00	no
30.3137	87.5860	92-07-12	Ampelisca Abdita	S	3.03	8.00	no
30.3203	87.3300	91-07-19	Ampelisca Abdita	S	16.01	9.00	no
30.3282	87.3030	92-07-10	Ampelisca Abdita	S	96.99	6.00	Yes
30.3318	87.5958	92-07-12	Ampelisca Abdita	S	14.99	8.00	no