

April Sampling Event (04/25/02)

Analytical Data																		
Sample ID	Locale	TSS (mg/l)	TDS (mg/l)	Copper (mg/l)			Lead (mg/l)			Nickel (mg/l)			Zinc (mg/l)					
				Qualifier	Total	Dissolved	Qualifier	Total	Dissolved	Qualifier	Total	Dissolved	Qualifier	Total	Dissolved			
MTS-1 (A)	U/S	1.07	2306	J	0.0023	0.0086	<	0.0005	<	0.0005	J	0.0096	J	0.0099	J	0.0024	0.0120	
MTS-2	Mixing Zone	1.43	1540		0.0124	0.0094	<	0.0005	<	0.0005	J	0.0059	J	0.0069		0.0302	0.0323	
MTS-3	Upper Estuary	30.40	5712	J	0.0020	0.0026	<	0.0005	<	0.0005	J	0.0065	J	0.0067	J	0.0087	J 0.0094	
MTS-R	Discharge	2.33	1358	J	0.0089	0.0068	<	0.0005	<	0.0005	J	0.0058	J	0.0065		0.0297	0.0315	
MTS-DUP	Duplicate	42.68	7164	J	0.0041	0.0025	<	0.0005	<	0.0005	J	0.0055	J	0.0070		0.0110	0.0202	
MTS-M	Near Mouth	36.84	7082	J	0.0038	0.0024	<	0.0005	<	0.0005	J	0.0060	J	0.0066	J	0.0072	0.0616	

Water Quality Parameters									
Sample ID	Locale	Time	pH	Cond. (ms/cm)	Turbidity (NTU)	DO (mg/l)	Temp. (C)	Sal. (ppt)	Tot. Depth (ft.)
MTS-1	Surface	825	8.62	2.92	3.00	1.22	16.20	1.40	1.00
	1ft.	130	9.30	3.62	2.00	1.34	21.20	2.00	3.50
MTS-2 (MZ-1)	2ft.	130	10.24	8.98	28.00	2.64	20.20	5.20	3.50
	3ft.	130	10.50	10.70	25.00	2.83	20.20	6.10	3.50
MTS-3	1ft.	1000	10.53	9.09	29.00	3.92	19.40	5.00	2.20
	2ft.	1000	10.55	9.95	44.00	3.42	18.70	5.70	2.20
MTS-R(MZ-R)	1ft.	900	8.77	2.13	1.00	1.74	21.10	1.00	1.30
MTS-M (MZ-5)	1ft.	1100	10.65	11.00	47.00	2.66	19.50	6.20	1.80
	1ft.	1245	10.40	8.81	28.00	3.06	20.40	5.50	3.20
MZ-2	2ft.	1245	10.45	10.90	27.00	2.58	20.00	6.40	3.20
	3ft.	1245	10.39	11.60	22.00	2.16	19.90	6.60	3.20
MZ-3	1ft.	1020	10.53	9.62	42.00	4.11	20.00	5.20	4.50
	2ft.	1020	10.61	10.10	41.00	4.29	19.80	5.70	4.50
	3ft.	1020	10.63	10.60	34.00	3.61	19.50	6.10	4.50
	4ft.	1020	10.66	11.10	25.00	3.23	19.40	6.20	4.50
MZ-4	1ft.	1040	10.62	9.90	43.00	4.07	20.00	5.50	4.50
	2ft.	1040	10.62	10.20	36.00	4.36	19.90	5.60	4.50
	3ft.	1040	10.65	10.80	39.00	4.35	19.70	5.90	4.50
MZ-6	4ft.	1040	10.68	11.10	33.00	3.77	19.40	6.20	4.50
	1ft.	1230	10.88	8.88	23.00	3.15	21.20	4.80	2.80
	2ft.	1230	10.66	9.99	40.00	4.22	21.40	5.50	2.80
MZ-8	1ft.	1050	10.66	9.90	36.00	3.86	19.80	5.50	2.50
	2ft.	1050	10.67	10.00	41.00	3.98	19.70	5.70	2.50

Notes:

The Mixing Zone (MTS-2) was sampled near MZ-1
 Mixing zone established primarily on salinity levels, and visual relationships between outfall flow and tidal inflow.
 Validated with water quality parameter measurement to establish sampling point.

Conditions:

Estuary is physically impounded, i.e. the sand spit prevents outflow, yet peak tides flow over the sandbar, and inundate the estuary. Sandbar is low and quite compacted. Water is very red-brown. Lots of fish jumping, tons of birds (te

Tides:

High 5.05 ft at 08:55; 5.87 ft. at 21:10
 Low -0.15 ft. at 02:58; -0.11 ft at 15:02

Qualifiers:

J : estimated value
 <: non-detect

erns and pelicans). Two dead pelicans sighted, and one comatosed pelica