APPENDIX N (Scenario 2)
Bayou Lafourche TMDL
Winter Season
Tributary Sources of CBOD and NBOD

		Loadings under current conditions (same boundary and temp. conditions as critical).							Winter Critical Conditions								
Reach	Headwater Name	Flow (cms)	UCBOD (mg/L)	UCBOD loading (g/d)	Organic N (mg/L)	NH_3-N (mg/L)	NBOD [1] (mg/L)	NBOD loading (g/d)	Critical Flow (cms)	UCBOD (mg/L)	UCBOD mass loading (mg/d)	UCBOD mass loading (g/d)	Organic N (mg/L)	NH_3-N (mg/L)	NBOD [1] (mg/L)	NBOD mass loading (mg/d)	NBOD mass loading (g/d)
1	Miss. River	5.4900	4.5000	2,134,512.00	0.46	0.05	0.23	108,385.78	2.0800	4.50	808704000.0	808704.0	0.5	0.05	0.23	41064192.0	41064.2
			Sub-total:	**2,134,512.00**			**Sub-total:**	**108,385.78**			**Sub-total:**	**808704.0**				**Sub-total:**	**41064.2**

[1] NBOD = 4.57 x (Organic N + NH_3-N)

Note 1: 7Q10 flows were used for flow data. Water quality concentrations obtained from intensive survey 9-23-03.

Point Sources of CBOD and NBOD
Discharger concentrations and flows same for calibration as for critical conditions.

Reach	LA-QUAL ID	omputationa Element	Flow (cms)	UCBOD (mg/L)	UCBOD mass loading (mg/d)	UCBOD mass loading (g/d)	Organic N (mg/L)	NH_3-N (mg/L)	NBOD [1] (mg/L)	NBOD mass loading (mg/d)	NBOD mass loading (g/d)
4	21	1080	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
4	12	1020	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
4	25	1020	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
4	22	995	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	2	960	0.00199	69.00	11,858,144.04	11,858.14	5.00	10.00	68.55	11,780,808.32	11,780.81
3	45	960	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	20	940	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	24	940	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	28	900	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	17	900	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	49	900	0.00003	489.00	1,388,295.45	1,388.30	7.50	15.00	102.83	291,925.32	291.93
~~3~~	~~8~~	~~900~~	~~0.00047~~	~~9,266.00~~	~~133,521,657.12~~	~~133,521.66~~	~~7.50~~	~~15.00~~	~~102.83~~	~~4,203,724.55~~	~~4,203.72~~
3	15	850	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	39	850	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	56	850	0.00003	69.00	195,894.45	195.89	5.00	10.00	68.55	194,616.88	194.62
3	42	850	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	32	850	0.00022	489.00	9,255,303.00	9,255.30	7.50	15.00	102.83	1,946,168.78	1,946.17
3	30	825	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	37	825	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	14	805	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	40	770	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	19	770	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	26	770	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	48	770	0.00219	69.00	13,059,630.00	13,059.63	5.00	10.00	68.55	12,974,458.50	12,974.46
3	31	770	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	27	770	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
3	9	770	0.00002	69.00	130,596.30	130.60	5.00	10.00	68.55	129,744.59	129.74
3	44	770	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
3	51	670	0.00003	69.00	195,894.45	195.89	5.00	10.00	68.55	194,616.88	194.62
3	29	670	0.00022	489.00	9,255,303.00	9,255.30	7.50	15.00	102.83	1,946,168.78	1,946.17
3	5	555	0.00351	69.00	20,895,408.00	20,895.41	5.00	10.00	68.55	20,759,133.60	20,759.13
2	18	535	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
2	4	520	0.00011	69.00	679,100.76	679.10	5.00	10.00	68.55	674,671.84	674.67
2	1	480	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	38	480	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	16	470	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
2	23	450	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
2	33	450	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
2	43	450	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	57	450	0.00005	69.00	313,431.12	313.43	5.00	10.00	68.55	311,387.00	311.39
2	41	450	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	52	444	0.00003	489.00	1,388,295.45	1,388.30	7.50	15.00	102.83	291,925.32	291.93
2	35	410	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	36	410	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
2	53	404	0.00003	69.00	195,894.45	195.89	5.00	10.00	68.55	194,616.88	194.62
2	13	282	0.00022	69.00	1,305,963.00	1,305.96	5.00	10.00	68.55	1,297,445.85	1,297.45
1	46	160	0.00219	69.00	13,059,630.00	13,059.63	5.00	10.00	68.55	12,974,458.50	12,974.46
1	50	160	0.00003	489.00	1,388,295.45	1,388.30	7.50	15.00	102.83	291,925.32	291.93
1	34	40	0.00110	69.00	6,529,815.00	6,529.82	5.00	10.00	68.55	6,487,229.25	6,487.23
1	47	40	0.00219	69.00	13,059,630.00	13,059.63	5.00	10.00	68.55	12,974,458.50	12,974.46
					Sub-total:	**207,325.60**				**Sub-total:**	**188,213.98**

Note: Point source flows and concentrations obtained from LPDES permits for specified discharger ID's. Point Source 8 is seasonal discharge which occurs in September and October only and is not included in winter season loading summation.