

APPENDIX C
WATER QUALITY DATA

Appendix C Water Quality Data Summary

Chlorophyll

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	1.40	5.19	2.96	3.08
Canyon Lake, Cove	16	0.50	6.97	3.76	3.50
Cedar Creek Reservoir, Main Body	20	13.00	56.20	32.70	38.30
Cedar Creek Reservoir, Cove	20	10.20	64.00	37.96	39.20
Granger Lake, Main Body	17	1.00	25.10	8.15	7.45
Granger Lake, Cove	18	1.00	36.30	9.17	6.19
Lake Bridgeport, Main Body	17	2.59	10.30	5.51	5.33
Lake Bridgeport, Cove	17	5.20	32.40	9.98	8.26
Lake Fork Reservoir, Main Body	19	5.00	24.00	14.21	14.00
Lake Fork Reservoir, Cove	19	7.00	27.00	16.37	15.20
Lake Georgetown, Main Body	16	1.00	3.58	1.58	1.00
Lake Georgetown, Cove	17	1.00	4.53	2.11	2.19
Lake Livingston, Main Body	20	7.80	42.60	28.11	28.45
Lake Livingston, Cove	18	20.70	115.00	45.84	38.40
Lake Travis, Main Body	19	1.00	3.48	2.14	2.50
Lake Travis, Cove	20	1.00	5.04	2.79	2.59

Chlorophyll-a + Pheophytin, calculated

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	2.81	6.69	4.25	4.37
Canyon Lake, Cove	16	2.00	7.97	5.11	5.07
Cedar Creek Reservoir, Main Body	20	16.21	67.70	40.79	44.72
Cedar Creek Reservoir, Cove	20	17.22	73.52	46.03	48.54
Granger Lake, Main Body	17	2.00	26.10	9.93	8.45
Granger Lake, Cove	18	2.00	37.30	10.89	8.18
Lake Bridgeport, Main Body	17	3.62	12.80	6.82	6.33
Lake Bridgeport, Cove	17	6.20	36.95	11.94	10.10
Lake Fork Reservoir, Main Body	19	6.00	28.00	16.34	16.00
Lake Fork Reservoir, Cove	19	2.00	28.35	17.64	19.00
Lake Georgetown, Main Body	16	2.00	7.15	2.82	2.00
Lake Georgetown, Cove	17	2.00	7.15	3.26	3.19
Lake Livingston, Main Body	20	13.21	62.50	34.06	33.79
Lake Livingston, Cove	18	24.28	130.60	53.68	45.99
Lake Travis, Main Body	19	2.00	5.00	3.38	3.57
Lake Travis, Cove	20	2.00	7.07	4.09	4.54

Appendix C (cont.) Water Quality Data Summary

Conductivity

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	34	362.00	526.00	407.12	402.00
Canyon Lake, Cove	34	358.00	526.00	404.85	399.00
Cedar Creek Reservoir, Main Body	57	165.80	230.00	202.18	204.00
Cedar Creek Reservoir, Cove	57	166.00	234.00	201.85	203.50
Granger Lake, Main Body	73	242.90	401.90	342.45	344.90
Granger Lake, Cove	73	239.60	633.50	343.07	346.90
Lake Bridgeport, Main Body	60	301.10	363.80	331.93	339.50
Lake Bridgeport, Cove	54	128.00	361.60	298.37	307.00
Lake Fork Reservoir, Main Body	56	151.00	172.00	160.57	160.50
Lake Fork Reservoir, Cove	57	114.00	175.00	161.82	164.00
Lake Georgetown, Main Body	75	246.20	558.00	351.21	357.30
Lake Georgetown, Cove	75	248.50	393.80	356.63	362.80
Lake Livingston, Main Body	57	300.00	507.00	351.19	341.00
Lake Livingston, Cove	57	302.00	541.00	395.54	383.00
Lake Travis, Main Body	60	423.00	476.00	439.15	437.00
Lake Travis, Cove	60	413.00	495.00	441.63	441.50

DO

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	34	6.20	10.50	8.60	8.63
Canyon Lake, Cove	34	6.06	10.30	8.53	8.66
Cedar Creek Reservoir, Main Body	57	4.55	12.73	7.34	7.00
Cedar Creek Reservoir, Cove	57	5.42	10.47	8.18	8.15
Granger Lake, Main Body	73	4.60	8.98	7.04	7.04
Granger Lake, Cove	73	2.04	9.35	6.87	6.83
Lake Bridgeport, Main Body	61	4.60	9.48	7.47	7.24
Lake Bridgeport, Cove	54	4.58	9.19	7.28	7.26
Lake Fork Reservoir, Main Body	56	4.46	9.23	7.39	7.43
Lake Fork Reservoir, Cove	57	3.51	10.11	7.89	8.32
Lake Georgetown, Main Body	75	6.52	10.03	7.41	7.21
Lake Georgetown, Cove	75	6.31	9.54	7.32	7.21
Lake Livingston, Main Body	60	5.05	16.79	10.02	9.87
Lake Livingston, Cove	60	4.90	16.63	8.63	8.01
Lake Travis, Main Body	60	6.86	10.50	8.18	8.06
Lake Travis, Cove	60	6.50	10.80	8.26	8.25

Appendix C (cont.) Water Quality Data Summary

Nitrate, as Nitrogen

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Granger Lake, Main Body	12	0.01	1.22	0.42	0.44
Granger Lake, Cove	13	0.01	1.13	0.36	0.35
Lake Fork Reservoir, Main Body	18	0.01	0.01	0.01	0.01
Lake Fork Reservoir, Cove	18	0.01	0.01	0.01	0.01
Lake Georgetown, Main Body	13	0.01	0.01	0.01	0.01
Lake Georgetown, Cove	13	0.01	0.01	0.01	0.01

Nitrite, as Nitrogen

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Granger Lake, Main Body	12	0.01	0.01	0.01	0.01
Granger Lake, Cove	13	0.01	0.01	0.01	0.01
Lake Fork Reservoir, Main Body	18	0.01	0.01	0.01	0.01
Lake Fork Reservoir, Cove	18	0.01	0.01	0.01	0.01
Lake Georgetown, Main Body	12	0.01	0.01	0.01	0.01
Lake Georgetown, Cove	13	0.01	0.01	0.01	0.01

NO2/NO3

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	0.01	0.39	0.13	0.15
Canyon Lake, Cove	16	0.01	0.29	0.13	0.12
Cedar Creek Reservoir, Main Body	20	0.00	0.14	0.02	0.01
Cedar Creek Reservoir, Cove	20	0.00	0.06	0.01	0.01
Lake Bridgeport, Main Body	17	0.00	0.04	0.01	0.01
Lake Bridgeport, Cove	17	0.00	0.06	0.02	0.01
Lake Fork Reservoir, Main Body	19	0.01	0.02	0.01	0.02
Lake Fork Reservoir, Cove	19	0.01	0.02	0.01	0.02
Lake Livingston, Main Body	19	0.01	0.85	0.17	0.04
Lake Livingston, Cove	18	0.01	2.04	0.37	0.28
Lake Travis, Main Body	19	0.01	0.08	0.02	0.01
Lake Travis, Cove	20	0.01	0.07	0.01	0.01

Appendix C (cont.) Water Quality Data Summary

pH

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	34	7.41	8.34	8.15	8.17
Canyon Lake, Cove	34	7.48	8.37	8.13	8.14
Cedar Creek Reservoir, Main Body	57	7.68	9.15	8.23	8.13
Cedar Creek Reservoir, Cove	57	7.99	9.34	8.66	8.66
Granger Lake, Main Body	70	7.36	8.44	8.08	8.14
Granger Lake, Cove	70	7.13	8.46	8.06	8.17
Lake Bridgeport, Main Body	60	7.69	8.60	8.09	8.13
Lake Bridgeport, Cove	54	7.26	8.69	8.13	8.14
Lake Fork Reservoir, Main Body	56	6.92	9.00	7.58	7.49
Lake Fork Reservoir, Cove	57	6.84	9.02	7.85	7.78
Lake Georgetown, Main Body	72	7.19	8.39	8.11	8.17
Lake Georgetown, Cove	72	7.47	8.37	8.11	8.15
Lake Livingston, Main Body	60	7.74	9.06	8.49	8.48
Lake Livingston, Cove	60	7.35	9.59	8.37	8.33
Lake Travis, Main Body	60	8.20	8.67	8.41	8.42
Lake Travis, Cove	60	7.90	8.60	8.33	8.37

Pheophytin

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	0.73	3.35	1.29	1.00
Canyon Lake, Cove	16	0.73	4.91	1.35	1.00
Cedar Creek Reservoir, Main Body	20	1.00	17.30	8.09	7.62
Cedar Creek Reservoir, Cove	20	3.65	16.60	8.07	8.35
Granger Lake, Main Body	17	1.00	4.81	1.78	1.00
Granger Lake, Cove	18	0.50	5.43	1.72	1.00
Lake Bridgeport, Main Body	17	1.00	2.50	1.31	1.00
Lake Bridgeport, Cove	17	1.00	4.55	1.96	1.71
Lake Fork Reservoir, Main Body	19	1.00	4.00	2.13	2.22
Lake Fork Reservoir, Cove	19	1.00	5.75	2.59	2.37
Lake Georgetown, Main Body	16	1.00	3.58	1.23	1.00
Lake Georgetown, Cove	17	1.00	3.58	1.15	1.00
Lake Livingston, Main Body	20	1.00	29.90	5.95	5.21
Lake Livingston, Cove	18	1.00	17.60	7.84	6.97
Lake Travis, Main Body	19	1.00	2.50	1.24	1.00
Lake Travis, Cove	20	1.00	2.50	1.30	1.00

Appendix C (cont.) Water Quality Data Summary

TKN

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	14	0.28	1.02	0.55	0.50
Canyon Lake, Cove	15	0.17	2.70	0.60	0.50
Cedar Creek Reservoir, Main Body	20	0.77	1.81	1.13	1.05
Cedar Creek Reservoir, Cove	20	0.87	2.14	1.36	1.35
Granger Lake, Main Body	9	0.10	1.20	0.42	0.26
Granger Lake, Cove	10	0.10	1.38	0.41	0.27
Lake Bridgeport, Main Body	17	0.33	1.25	0.71	0.66
Lake Bridgeport, Cove	17	0.32	1.58	0.80	0.80
Lake Fork Reservoir, Main Body	13	0.29	1.58	0.95	0.86
Lake Fork Reservoir, Cove	13	0.22	1.39	0.91	0.84
Lake Georgetown, Main Body	11	0.10	0.90	0.31	0.24
Lake Georgetown, Cove	10	0.10	0.82	0.37	0.29
Lake Livingston, Main Body	20	0.50	2.50	1.01	0.85
Lake Livingston, Cove	18	0.60	2.10	1.14	0.95
Lake Travis, Main Body	19	0.18	0.95	0.34	0.32
Lake Travis, Cove	20	0.21	0.52	0.34	0.32

TP

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	0.02	0.19	0.05	0.04
Canyon Lake, Cove	16	0.02	0.07	0.04	0.04
Cedar Creek Reservoir, Main Body	20	0.04	0.14	0.08	0.09
Cedar Creek Reservoir, Cove	20	0.01	0.14	0.11	0.11
Granger Lake, Main Body	8	0.03	1.17	0.23	0.12
Granger Lake, Cove	10	0.03	1.29	0.27	0.16
Lake Bridgeport, Main Body	17	0.02	0.07	0.03	0.03
Lake Bridgeport, Cove	17	0.02	0.12	0.05	0.05
Lake Fork Reservoir, Main Body	13	0.02	0.14	0.04	0.03
Lake Fork Reservoir, Cove	14	0.03	0.13	0.06	0.05
Lake Georgetown, Main Body	11	0.03	0.64	0.19	0.12
Lake Georgetown, Cove	9	0.03	0.56	0.20	0.15
Lake Livingston, Main Body	20	0.10	0.64	0.19	0.16
Lake Livingston, Cove	18	0.18	0.72	0.30	0.24
Lake Travis, Main Body	19	0.01	0.01	0.01	0.01
Lake Travis, Cove	20	0.01	0.02	0.01	0.01

Appendix C (cont.) Water Quality Data Summary

Transparency

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	12	1.25	3.30	2.42	2.35
Canyon Lake, Cove	13	1.00	2.40	1.74	1.85
Cedar Creek Reservoir, Main Body	18	0.51	1.07	0.76	0.75
Cedar Creek Reservoir, Cove	18	0.30	0.66	0.52	0.51
Granger Lake, Main Body	18	0.25	0.98	0.49	0.48
Granger Lake, Cove	19	0.10	0.50	0.33	0.32
Lake Bridgeport, Main Body	17	0.89	1.85	1.43	1.42
Lake Bridgeport, Cove	17	0.20	1.73	0.90	0.67
Lake Fork Reservoir, Main Body	19	1.18	2.54	1.79	1.68
Lake Fork Reservoir, Cove	19	0.79	1.69	1.19	1.25
Lake Georgetown, Main Body	20	0.34	3.22	2.18	2.34
Lake Georgetown, Cove	19	0.91	3.68	1.52	1.22
Lake Livingston, Main Body	20	0.70	1.20	0.92	0.93
Lake Livingston, Cove	18	0.10	0.50	0.35	0.38
Lake Travis, Main Body	20	2.00	5.00	3.22	3.39
Lake Travis, Cove	20	1.80	4.60	2.83	2.64

TSS

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	0.50	5.00	2.39	2.40
Canyon Lake, Cove	16	1.50	6.00	3.43	3.05
Cedar Creek Reservoir, Main Body	20	4.40	11.10	7.45	7.30
Cedar Creek Reservoir, Cove	20	7.60	20.60	13.79	13.60
Granger Lake, Main Body	12	2.00	24.20	14.60	15.00
Granger Lake, Cove	13	12.00	56.00	34.48	30.00
Lake Bridgeport, Main Body	17	2.00	9.00	4.94	5.75
Lake Bridgeport, Cove	17	2.00	31.00	11.19	13.25
Lake Fork Reservoir, Main Body	19	0.50	4.00	2.18	2.00
Lake Fork Reservoir, Cove	19	1.50	7.00	4.14	4.00
Lake Georgetown, Main Body	14	2.00	11.00	3.60	2.00
Lake Georgetown, Cove	13	2.00	12.00	4.86	2.00
Lake Livingston, Main Body	20	5.00	10.00	7.62	7.70
Lake Livingston, Cove	18	14.60	39.20	23.82	24.60
Lake Travis, Main Body	19	0.50	3.00	1.29	0.50
Lake Travis, Cove	20	0.50	4.00	1.78	2.00

Turbidity, field

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Cedar Creek Reservoir, Main Body	15	5.06	10.60	6.81	6.36
Cedar Creek Reservoir, Cove	15	7.48	15.30	11.90	12.90
Lake Bridgeport, Main Body	17	3.10	12.30	6.30	5.82
Lake Bridgeport, Cove	17	2.80	62.70	16.53	15.75

Appendix C (cont.) Water Quality Data Summary

Turbidity, lab

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	13	0.16	4.74	2.03	2.08
Canyon Lake, Cove	15	0.50	5.22	3.20	3.20
Granger Lake, Main Body	14	0.06	21.30	9.58	8.48
Granger Lake, Cove	15	4.61	47.70	16.31	9.54
Lake Fork Reservoir, Main Body	18	1.57	2.83	2.11	2.19
Lake Fork Reservoir, Cove	18	2.30	9.25	4.28	3.78
Lake Georgetown, Main Body	16	0.69	9.62	1.62	0.91
Lake Georgetown, Cove	15	0.66	6.22	2.48	1.86
Lake Livingston, Main Body	20	3.72	9.40	5.74	5.22
Lake Livingston, Cove	18	10.40	85.70	26.09	23.10
Lake Travis, Main Body	7	1.00	1.60	1.29	1.25
Lake Travis, Cove	8	1.20	2.40	1.55	1.40

VSS

Station	Parameter Value				
	Count	Min	Max	Avg	Median
Canyon Lake, Main Body	15	0.50	2.80	1.31	1.40
Canyon Lake, Cove	16	0.50	3.10	1.67	1.55
Cedar Creek Reservoir, Main Body	20	2.00	6.70	3.87	4.50
Cedar Creek Reservoir, Cove	20	2.00	8.50	6.01	6.30
Granger Lake, Main Body	15	1.20	5.00	3.26	3.60
Granger Lake, Cove	15	1.60	13.50	6.71	6.60
Lake Bridgeport, Main Body	17	2.00	2.00	2.00	2.00
Lake Bridgeport, Cove	17	2.00	7.60	2.68	2.00
Lake Fork Reservoir, Main Body	18	0.50	4.00	2.19	2.00
Lake Fork Reservoir, Cove	14	1.50	5.00	3.03	3.00
Lake Georgetown, Main Body	15	0.25	2.60	1.35	1.20
Lake Georgetown, Cove	15	0.67	4.00	1.75	1.60
Lake Livingston, Main Body	20	1.80	6.80	4.01	3.90
Lake Livingston, Cove	18	4.60	21.30	8.47	7.45
Lake Travis, Main Body	19	0.50	2.00	0.89	0.50
Lake Travis, Cove	20	0.50	4.00	1.35	0.50