

APPENDIX C – WATER QUALITY

Appendix C - 1. Water quality parameters for ecoregion 24.

		Ecoregion 24	Alamito Creek	Independence Creek	Pecos River	Rio Grande: Johnson Ranch	Rio Grande: Presidio	Terlingua Creek
		13108		13109, 13110	18801	13227	13229	13714
Dissolved Oxygen (mg/L)	5 th percentile	5.4	1.94	6.77	7.54	5.68	5.7	6.52*
	95 th percentile	11.2	11.9	10.82	10.42	10.67	11.24	8.68*
	mean	8.30	7.13	8.66	8.94	8.37	8.29	7.6*
Total Phosphorus (mg/L)	5 th percentile	0.01	0.03	0.005	0.01	0.016*	0.028	0.08*
	95 th percentile	0.90	0.86	0.04	0.05	0.91*	1.39	0.08*
	median	0.11	0.15	0.02	0.02	0.047*	0.16	0.08*
Ammonia (mg/L)	5 th percentile	0.01	0.0075	0.005	0.025	0.05*	0.01	0.012*
	95 th percentile	0.22	0.16	0.055	0.06	0.17*	0.29	0.039*
	median	0.025	0.01	0.025	0.025	0.05*	0.05	0.025*
Chlorophyll-a (µg/L)	5 th percentile	0.5	0.7*	0.25	1.12	2.0*	1.5	0.5*
	95 th percentile	85.5	7.6*	5.0	13.27	5.4*	100.35	0.5*
	median	5.0	2.0*	1.04	3.06	2.0*	11.0	0.5*
pH	5 th percentile	7.2	7.32	7.3	7.9	7.87	7.1	7.63*
	95 th percentile	8.4	8.3	8.3	8.2	8.5	8.5	8.075*
	median	8.0	7.9	8.0	8.0	8.3	7.9	7.85*
Secchi Depth (m)	5 th percentile	0.04	0.3	0.6	0.28	n/a	0.03	0.2*
	95 th percentile	1.00	0.95	1.2	1.0	n/a	0.4	0.2*
	median	0.24	0.49	1.0	0.6	n/a	0.17	0.2*

* = less than 10 samples

n/a= no data

Appendix C - 2. Water quality parameters for ecoregion 26.

		Ecoregion 26	Bluff Creek	Buck Creek	Canadian River: SH 70	Canadian River: US 385	McClellan Creek	N. Fork Wichita River	Saddlers Creek	Salt Fork Red River	White Deer Creek	Whitefish Creek	Wolf Creek
			12205	15811	10033	10056	10064	15119	10078	10171	21174	10077	10059
Dissolved Oxygen (mg/L)	5 th percentile	6.0	5.67	6.50	7.0	6.0	5.94	5.4	6.13	7.0	6.18	6.3	6.45
	95 th percentile	12.8	11.9	13.6	12.4	12.38	12.3	12.63	7.9	13.8	12.51	12.1	12.9
	mean	9.099	8.11	10.39	9.43	8.88	8.33	8.69	7.23	9.55	9.22	8.15	9.52
Total Phosphorus (mg/L)	5 th percentile	0.0005	0.011*	0.01	0.03	0.011	0.01	0.005	0.04*	0.005	0.01	0.0078	0.01
	95 th percentile	0.54	0.029*	0.14	0.17	7.028	0.12	0.081	0.04*	0.11	0.12	0.17	0.14
	median	0.03	0.02*	0.028	0.07	0.09	0.03	0.02	0.04*	0.02	0.047	0.31	0.06
Ammonia (mg/L)	5 th percentile	0.01	0.021*	0.01	0.02	0.01	0.005	0.025	0.01*	0.01	0.025	0.01	0.01
	95 th percentile	0.17	0.039*	0.11	0.15	0.14	0.05	0.07	0.01*	0.2	0.059	0.18	0.067
	median	0.05	0.03*	0.025	0.05	0.025	0.025	0.025	0.01*	0.05	0.05	0.055	0.045
Chlorophyll-a (µg/L)	5 th percentile	0.5	2.1*	1.0	1.0	0.5	0.5	1.0	1.0*	0.5	1.0	0.5	1.0
	95 th percentile	29.06	3.9*	5.0	29.5	35.2	2.5	28.83	1.0*	5.36	20.49	14.62	4.93
	median	2.5	3.0*	2.5	5.81	4.73	1.0	4.03	1.0*	1.0	4.77	0.5	2.1
pH	5 th percentile	7.4	7.68	7.51	7.71	7.5	7.68	7.4	7.34	7.42	7.65	7.45	7.56
	95 th percentile	8.43	8.26	8.5	8.59	8.6	8.2	8.0	7.4	8.3	8.5	8.33	8.4
	median	8.0	7.81	7.9	8.2	8.2	7.9	7.7	7.385	8.0	8.05	7.88	8.17
Secchi Depth (m)	5 th percentile	0.02	n/a	0.16	0.33	0.008	0.3	0.11	n/a	0.2	0.18	0.018*	0.2
	95 th percentile	1.2	n/a	1.2	1.2	1.2	1.25	1.2	n/a	1.2	1.14	0.23*	1.2
	median	0.4	n/a	0.91	1.2	0.2	1.2	0.81	n/a	0.5	0.34	0.08*	1.2

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n/a= no data

Appendix C - 3. Water quality parameters for ecoregions 27, 29 and 32.

		Ecoregion 27	Cottonwood Creek	Deadman Creek	Elm Creek	Lelia Lake Creek	Sweetwater Creek
			11710	11697, 11696, 11699	12207	10076	10072
Dissolved Oxygen (mg/L)	5 th percentile	3.3	3.86	2.81	5.61	3.62	5.22
	95 th percentile	13.39	11.92	14.2	12.21	13.7	13.17
	mean	8.81	7.86	8.57	8.49	9.45	9.29
Total Phosphorus (mg/L)	5 th percentile	0.01	0.083*	0.12	0.03*	0.01	0.01
	95 th percentile	7.2	0.14*	9.11	0.044*	0.057	0.17
	median	0.07	0.11*	2.98	0.03*	0.005	0.065
Ammonia (mg/L)	5 th percentile	0.01	0.033*	0.025	0.01*	0.01	0.01
	95 th percentile	0.75	0.087*	9.44	0.063*	0.078	0.11
	median	0.025	0.06*	0.06	0.03*	0.025	0.03
Chlorophyll-a (µg/L)	5 th percentile	0.5	32	0.94	2.35	0.42	1.0
	95 th percentile	28.24	180.59	22.98	21.47	5.0	40.23
	median	3.09	129.5	3.39	7.85	1.5	4.15
pH	5 th percentile	7.5	7.34	7.42	7.76	7.5	7.72
	95 th percentile	8.5	8.09	8.69	8.33	8.3	8.4
	median	8.0	7.78	8.1	8.08	8.0	8.1
Secchi Depth (m)	5 th percentile	0.17	n/a	0.16	0.15	0.4	0.2
	95 th percentile	1.2	n/a	0.6	0.90	1.2	1.2
	median	0.51	n/a	0.36	0.38	1.2	0.78

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Appendix C - 3 CONT. Water quality parameters for ecoregions 27, 29 and 32.

		Ecoregion 29	Bluff Creek	Clear Creek	Colony Creek	Cowhouse Creek	Ioni Creek	Neils Creek	Reese Creek	Rocky Creek	South Fork Rocky Creek	Steele Creek
			11832	10859	11837	11805	11716	11826, 21999	18850	11724	18333	11836
Dissolved Oxygen (mg/L)	5 th percentile	5.4	4.067	5.2	5.83	6.35	5.26	5.66	n/a	5.62	7.30	6.38
	95 th percentile	12.09	11.90	12.32	9.52	11.96	7.64	12.4	n/a	10.54	10.80	9.40
	mean	8.52	7.56	8.47	7.46	8.76	6.33	9.16	n/a	8.081	8.91	7.83
Total Phosphorus (mg/L)	5 th percentile	0.01	0.006*	0.01	0.01	0.015*	0.005	0.015	0.06*	0.017	0.016	0.012*
	95 th percentile	0.34	0.029*	0.22	0.12	0.20*	0.05	0.38	0.06*	0.08	0.075	0.039*
	median	0.06	0.018*	0.03	0.04	0.03*	0.02	0.067	0.06*	0.03	0.058	0.025*
Ammonia (mg/L)	5 th percentile	0.01	0.01*	0.01	0.008	0.02*	0.008	0.0085	n/a	0.01	0.01	0.01*
	95 th percentile	0.08	0.01*	0.05	0.17	0.02*	0.09	0.056	n/a	0.073	0.090	0.01*
	median	0.025	0.01*	0.025	0.05	0.02*	0.03	0.03	n/a	0.03	0.028	0.01*
Chlorophyll-a (µg/L)	5 th percentile	0.5	1.0*	0.61	0.5	1.5	0.5	0.47	1.51*	1.5	1.5*	1.0*
	95 th percentile	10.2	1.0*	21.08	21.88	8.7	8.26	8.12	1.64*	3.2	1.5*	1.0*
	median	1.5	1.0*	3.12	1.2	1.65	1.0	1.5	1.58*	1.5	1.5*	1.0*
pH	5 th percentile	7.4	7.18	7.6	7.62	7.44	7.52	7.36	n/a	7.66	7.42	7.72
	95 th percentile	8.3	8.26	8.3	8.069	8.31	7.91	8.3	n/a	8.2	8.13	8.15
	median	7.99	7.79	8.0	7.91	8.08	7.77	8.0	n/a	7.93	7.87	8.02
Secchi Depth (m)	5 th percentile	0.15	n/a	0.097	0.23*	0.22	0.19	0.53	1.2*	0.59	0.91	n/a
	95 th percentile	1.2	n/a	1.1	0.85*	1.2	1.37	1.22	1.2*	1.2	1.51	n/a
	median	1.0	n/a	0.52	0.5*	1.2	0.33	1.0	1.2*	1.2	1.1	n/a

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Appendix C - 3 CONT. Water quality parameters for ecoregions 27, 29 and 32.

		Ecoregion 32	Auds Creek	Cow Bayou	Deer Creek	Geronimo Creek	Willis Creek	Wilson Creek
			10197	11717	16407, 11723	12576	11573, 20022	10777
Dissolved Oxygen (mg/L)	5 th percentile	5.38	6.17	6.62	5.06	6.7	5.23	3.7
	95 th percentile	11.1	8.87	8.58	11.92	10.91	9.9	11.95
	mean	7.88	7.42	7.52	8.36	8.43	7.35	7.32
Total Phosphorus (mg/L)	5 th percentile	0.01	0.0095*	0.012*	0.051*	0.01	0.01	0.01
	95 th percentile	0.14	0.15*	0.075*	0.087*	0.13	0.25	0.11
	median	0.025	0.05*	0.03*	0.06*	0.025	0.03	0.03
Ammonia (mg/L)	5 th percentile	0.01	0.016*	0.01*	0.021*	0.02	0.0055*	0.01
	95 th percentile	0.2	0.48*	0.019*	0.075*	0.24	0.069*	0.094
	median	0.05	0.077*	0.01*	0.03*	0.05	0.029*	0.025
Chlorophyll-a (µg/L)	5 th percentile	0.5	1.0*	1.0*	2.6*	0.5	0.93	0.5
	95 th percentile	9.82	7.66*	1.0*	13.4*	3.48	13.13	15.31
	median	1.2	2.0*	1.0*	8.0*	0.5	1.65	3.52
pH	5 th percentile	7.4	7.56	7.59	7.5	7.5	7.37	7.25
	95 th percentile	8.1	8.17	8.13	8.2	7.96	8.0	8.0
	median	7.8	7.99	7.68	7.9	7.76	7.8	7.7
Secchi Depth (m)	5 th percentile	0.071	0.14*	n/a	0.032	0.47*	0.31	0.18
	95 th percentile	1.2	0.55*	n/a	0.75	1.08*	1.2	0.99
	median	0.4	0.32*	n/a	0.18	0.77*	1.1	0.50

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Appendix C - 4. Water quality parameters for ecoregion 30.

		Ecoregion 30	Barton Creek	Brushy Creek	Bull Creek	Bullhead Creek	Carpers Creek	Cypress Creek	Devils River	Guadalupe River	James River
			12494	17374	16322	20832	12540	12674	13239	15111	12208
Dissolved Oxygen (mg/L)	5 th percentile	4.09	6.79	5.03	4.05	n/a	4.9	6.42	6.88	6.1	6.73
	95 th percentile	10.9	9.17	14.36	9.10	n/a	10.48	10.50	11.43	11.15	9.33
	mean	7.81	8.22	9.21	6.77	n/a	7.14	8.39	8.71	8.4	7.89
Total Phosphorus (mg/L)	5 th percentile	0.005	0.005	0.025	0.01	0.01*	0.005*	0.005	0.01	0.006	0.01*
	95 th percentile	0.08	0.02	0.4	0.08	0.01*	0.005*	0.11	0.03	0.025	0.01*
	median	0.02	0.015	0.04	0.01	0.01*	0.005*	0.01	0.025	0.02	0.01*
Ammonia (mg/L)	5 th percentile	0.0062	0.005	n/a	0.01	0.025*	0.01*	0.01	0.025	n/a	0.01*
	95 th percentile	0.11	0.11	n/a	0.12	0.025*	0.01*	0.17	0.045	n/a	0.01*
	median	0.025	0.02	n/a	0.01	0.025*	0.01*	0.05	0.025	n/a	0.01*
Chlorophyll-a (µg/L)	5 th percentile	0.3	0.5	1.5	n/a	0.32*	2.0*	0.5	0.43	0.5	2.0*
	95 th percentile	6.11	2.24	9.45	n/a	0.32*	2.0*	2.85	5.0	1.97	2.0*
	median	1.0	1.0	1.65	n/a	0.32*	2.0*	0.5	1.5	0.5	2.0*
pH	5 th percentile	7.2	7.33	7.38	6.77	n/a	7.45	7.32	7.32	7.52	7.96
	95 th percentile	8.2	8.04	8.53	8.04	n/a	7.81	8.1	8.1	8.20	8.4
	median	7.82	7.99	7.8	7.5	n/a	7.62	7.8	7.8	8.1	8.13
Secchi Depth (m)	5 th percentile	0.3	3.0*	0.26	n/a	n/a	n/a	1.0*	1.0	0.53	n/a
	95 th percentile	1.5	3.0*	1.2	n/a	n/a	n/a	2.0*	1.95	1.2	n/a
	median	1.1	3.0*	1.2	n/a	n/a	n/a	1.5*	1.2	0.84	n/a

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n/a= no data

Appendix C - 4 CONT. Water quality parameters for ecoregion 30.

		Ecoregion 30	Johnson Creek	Little Barton Creek	Little Blanco River	Live Oak Creek	Llano River	Medina River	Montell Creek	North Prong Medina River	Nueces River
			12678	12252	12560	13112	17471	12832	20831	18447	13005
Dissolved Oxygen (mg/L)	5 th percentile	4.09	6.3	2.19	6.2	5.30	6.24	6.35	6.6*	4.43	5.69
	95 th percentile	10.9	10.9	10.09	9.1	11.88	11.36	10.05	6.6*	9.09	10.61
	mean	7.81	8.29	7.17	7.61	8.30	8.02	8.45	6.6*	7.13	8.24
Total Phosphorus (mg/L)	5 th percentile	0.005	0.0045	0.0068*	0.005*	0.02*	0.01	0.01	0.01*	0.01	0.002
	95 th percentile	0.08	0.026	0.067*	0.070*	0.02*	0.03	0.02	0.01*	0.024	0.06
	median	0.02	0.02	0.015	0.02*	0.02*	0.01	0.02	0.01*	0.01	0.02
Ammonia (mg/L)	5 th percentile	0.0062	0.0015	0.005	0.007*	0.01*	0.01	0.08	0.025*	0.05	0.02
	95 th percentile	0.11	0.18	0.12	0.092*	0.01*	0.028	0.1	0.025*	0.05	0.14
	median	0.025	0.025	0.02	0.035*	0.01*	0.01	0.1	0.025*	0.05	0.02
Chlorophyll-a (µg/L)	5 th percentile	0.3	0.157	0.68*	0.5*	1.0*	1.0	4.0	0.23*	0.5	2.0
	95 th percentile	6.11	1.36	2.2*	4.6*	1.0*	1.0	4.0	0.23*	1.85	2.82
	median	1.0	0.5	1.0*	0.75*	1.0*	1.0	4.0	0.23*	0.5	2.0
pH	5 th percentile	7.2	7.60	7.15	7.5	7.24	7.44	7.55	n/a	7.23	7.4
	95 th percentile	8.2	8.33	8.15	8.05	7.45	8.18	8.2	n/a	8.1	8.0
	median	7.82	8.1	7.95	7.86	7.32	7.9	7.9	n/a	7.6	7.8
Secchi Depth (m)	5 th percentile	0.3	1.0*	n/a	0.79*	n/a	0.17	1.2	n/a	1.2	0.31
	95 th percentile	1.5	1.0*	n/a	1.7*	n/a	0.74	1.2	n/a	1.2	0.97
	median	1.1	1.0*	n/a	1.0*	n/a	0.4	1.2	n/a	1.2	0.6

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n/a= no data

Appendix C - 4 CONT. Water quality parameters for ecoregion 30.

		Ecoregion 30	Oatmeal Creek	Onion Creek	Pedernales River	San Saba River	Slaughter Creek	South Concho River	South Llano River	Spring Creek	West Rocky Creek
			11726	21941	17472	20662	12186, 12185	18869	17009, 18197	12162	12165
Dissolved Oxygen (mg/L)	5 th percentile	4.09	3.90	9.2*	5.43	7.5*	3.61	n/a	6.2	6.0	3.95
	95 th percentile	10.9	8.09	9.2*	11.19	13.12*	12.6	n/a	9.65	10.69	9.66
	mean	7.81	6.44	9.2*	7.86	9.54*	8.45	n/a	7.86	7.93	6.48
Total Phosphorus (mg/L)	5 th percentile	0.005	0.0073	0.02*	0.01	0.01*	0.005	0.01*	0.01	0.01	0.01
	95 th percentile	0.08	0.047	0.02*	0.08	0.07*	0.11	0.01*	0.06	0.07	0.043
	median	0.02	0.015	0.02*	0.02	0.02*	0.02	0.01*	0.01	0.025	0.02
Ammonia (mg/L)	5 th percentile	0.0062	0.005	n/a	0.01	0.025*	0.005	0.025*	0.01	0.01	0.005
	95 th percentile	0.11	0.036	n/a	0.066	0.082*	0.09	0.025*	0.094	0.072	0.074
	median	0.025	0.015	n/a	0.01	0.025*	0.025	0.025*	0.028	0.03	0.01
Chlorophyll-a (µg/L)	5 th percentile	0.3	0.5	1.79*	1.0	0.42	0.5	1.5*	0.44	0.5	0.5
	95 th percentile	6.11	16.91	1.79*	6.73	15	19.2	1.5*	1.59	4.24	8.69
	median	1.0	0.75	1.79*	1.0	2.54	3.0	1.5*	1.0	1.0	1.0
pH	5 th percentile	7.2	7.56	8.0*	7.52	7.91	7.2	n/a	7.65	7.62	7.18
	95 th percentile	8.2	7.71	8.0*	8.23	8.15	8.1	n/a	8.15	8.16	8.1
	median	7.82	7.65	8.0*	8.05	8.0	7.7	n/a	8.0	7.73	7.5
Secchi Depth (m)	5 th percentile	0.3	n/a	n/a	0.22	0.31	0.23	n/a	0.47*	0.47*	0.25
	95 th percentile	1.5	n/a	n/a	1.13	1.05	1.2	n/a	0.75*	0.89*	1.5
	median	1.1	n/a	n/a	0.58	0.67	1.2	n/a	0.67*	0.61*	1.0

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n/a= no data

Appendix C - 5. Water quality parameters for ecoregion 31.

		Ecoregion 31	Las Moras Creek	Metate Creek	Mud Creek	Pinto Creek	San Miguel Creek	Sycamore Creek	Nueces River
		13129, 14941, 22310	12954	13136	13137	12984	13135	22083	
Dissolved Oxygen (mg/L)	5 th percentile	3.95	6.42*	3.76	6.56	4.64	5.04	5.11	8.5*
	95 th percentile	8.68	11.5*	5.94	8.08	7.96	8.41	9.50	8.5*
	mean	6.53	9.2*	4.64	7.30	5.83	6.61	6.30	8.5*
Total Phosphorus (mg/L)	5 th percentile	0.006	0.02*	0.33*	0.03*	0.01*	0.10*	0.01*	0.02*
	95 th percentile	0.096	0.09*	0.33*	0.08*	0.02*	0.10*	0.04*	0.02*
	median	0.03	0.05*	0.33*	0.04*	0.02*	0.10*	0.02*	0.02*
Ammonia (mg/L)	5 th percentile	0.005	0.02*	0.01*	0.01*	0.01*	0.04*	0.01*	0.05*
	95 th percentile	0.86	0.11*	0.01*	0.91*	0.94*	0.04*	0.03*	0.05*
	median	0.01	0.05*	0.01*	0.01*	0.01*	0.04*	0.01*	0.05*
Chlorophyll-a (µg/L)	5 th percentile	0.50	0.83*	27.0*	0.55*	0.5*	6.00*	0.5*	0.56*
	95 th percentile	5.44	13.4*	27.0*	2.31*	1.85*	6.00*	2.17*	0.56*
	median	1.0	1.95*	27.0*	1.00*	0.5*	6.00*	0.5*	0.56*
pH	5 th percentile	7.13	7.21*	7.94	7.59	7.27	7.30	7.10*	7.7*
	95 th percentile	8.08	8.76*	8.11	7.86	7.64	7.78	7.90*	7.7*
	median	7.7	7.85*	7.99	7.65	7.39	7.58	7.13*	7.7*
Secchi Depth (m)	5 th percentile	0.25	0.55*	n/a	0.25*	1.00*	n/a	1.00*	1.2*
	95 th percentile	1.08	0.55*	n/a	0.3*	1.00*	n/a	1.00*	1.2*
	median	1.0	0.55*	n/a	0.28*	1.00*	n/a	1.00*	1.2*

* = less than 10 samples

n/a= no data

Appendix C - 6. Water quality parameters for ecoregions 33 and 35.

		Ecoregion 33	Blair Creek	Catfish Creek	Cummins Creek	Cuthand Creek	Davidson Creek	Kickapoo Creek	Little Mustang Creek
			17952	10717	12249	10202	11729	17342	17343
Dissolved Oxygen (mg/L)	5 th percentile	1.25	7.41*	3.02	5.29	6.17*	0.71	5.30	3.16*
	95 th percentile	10.50	8.78*	9.96	10.95	11.49*	9.08	10.70	9.93*
	mean	6.33	8.23*	6.99	8.02	8.73*	3.74	8.51	5.97*
Total Phosphorus (mg/L)	5 th percentile	0.01	0.02*	0.03	0.01	0.05*	0.01	0.03	0.13*
	95 th percentile	0.32	0.16*	0.12	0.32	0.17*	0.28	0.38	0.19*
	median	0.07	0.13*	0.07	0.04	0.11*	0.09	0.12	0.14*
Ammonia (mg/L)	5 th percentile	0.01	0.01*	0.03	0.01	0.01*	0.03	0.04	0.08*
	95 th percentile	0.18	0.14*	0.16	0.09	0.38*	0.52	0.37	0.46*
	median	0.05	0.07*	0.05	0.02	0.09*	0.10	0.06	0.19*
Chlorophyll-a (µg/L)	5 th percentile	0.67	1.00*	1.00	0.56	1.00*	1.92	2.00	1.00*
	95 th percentile	11.2	2.28*	10.00	9.45	19.7*	24.7	8.44	6.30*
	median	2.0	1.00*	3.81	2.00	5.30*	4.63	2.70	2.50*
pH	5 th percentile	6.00	6.10*	6.10	7.11	7.49	6.39	7.26	6.82*
	95 th percentile	8.00	7.19*	7.00	8.10	7.83	7.36	7.66	7.15*
	median	7.20	6.70*	6.37	7.70	7.58	6.97	7.44	7.04*
Secchi Depth (m)	5 th percentile	0.12	0.17	0.22	0.14	0.32*	0.10	0.30	0.27*
	95 th percentile	0.91	0.85	0.97	0.91	0.57*	0.55	0.62	0.50*
	median	0.40	0.30	0.50	0.47	0.42*	0.28	0.44	0.30*

* = less than 10 samples

n/a= no data

Appendix C - 6 CONT. Water quality parameters for ecoregions 33 and 35.

		Ecoregion 33	Lower Kechi Creek	Middle Yegua Creek	Mill Creek	Ponds Creek	Smackover Creek	Wheelock Creek
			10822	11838, 11840, 18750, 18751	11576, 11574	11579	20101	10821
Dissolved Oxygen (mg/L)	5 th percentile	1.25	4.47	2.1	6.19	2.78	2.96*	4.61
	95 th percentile	10.50	10.24	10.3	11.02	6.90	9.64*	10.97
	mean	6.33	7.11	6.52	7.99	5.75	5.48*	8.11
Total Phosphorus (mg/L)	5 th percentile	0.01	0.07*	0.02	0.03	0.12	0.11*	0.03*
	95 th percentile	0.32	0.08*	0.18	0.32	1.65	0.58*	0.04*
	median	0.07	0.08*	0.06	0.10	0.30	0.24*	0.03*
Ammonia (mg/L)	5 th percentile	0.01	0.02*	0.02*	0.01	0.01*	0.03*	0.01*
	95 th percentile	0.18	0.06*	0.05*	0.10	0.88*	0.19*	0.06*
	median	0.05	0.04*	0.05*	0.03	0.06*	0.05*	0.01*
Chlorophyll-a (µg/L)	5 th percentile	0.5	1.00*	0.65	1.00	1.17	1.18*	1.00*
	95 th percentile	12.36	1.00*	39.4	10.00	67.5	8.39*	19.90*
	median	2.43	1.00*	4.38	4.09	5.0	2.21*	1.00*
pH	5 th percentile	6.00	6.81	6.7	7.60	6.62	6.90*	6.26
	95 th percentile	8.00	7.61	7.8	8.20	7.49	7.38*	6.65
	median	7.20	6.92	7.2	7.90	6.84	7.10*	6.36
Secchi Depth (m)	5 th percentile	0.12	n/a	0.12	0.09	0.13	0.13*	n/a
	95 th percentile	0.91	n/a	0.99	1.20	0.45	0.43*	n/a
	median	0.40	n/a	0.43	0.40	0.20	0.27*	n/a

* = less than 10 samples

n/a= no data

Appendix C - 6 CONT. Water quality parameters for ecoregions 33 and 35.

		Ecoregion 35	Beach Creek	Beech Creek	Big Cypress Creek	Black Bayou	Black Cypress Bayou	East Fork of the San Jacinto River	Frazier Creek	Irons Bayou	James Bayou
			10256	10529, 17903	10342	10314, 16157	10248	11237	10259, 17619	10389	10321, 14976
Dissolved Oxygen (mg/L)	5 th percentile	1.71	2.9	5.94	0.92	1.0	3.07	5.38	3.45	1.31	1.62
	95 th percentile	10.7	9.18	2.84	6.07	10.5	10.41	9.58	12.08	5.9	11.86
	mean	6.85	4.94	9.4	2.81	5.66	8.09	7.2	6.93	2.93	6.13
Total Phosphorus (mg/L)	5 th percentile	0.03	0.16*	0.03	0.05	0.03	0.07	0.02	0.005	0.09	0.005
	95 th percentile	0.38	0.61*	0.35	0.11	0.33	0.28	0.17	0.23	0.34	0.4
	median	0.1	0.56*	0.04	0.07	0.12	0.13	0.07	0.05	0.19	0.08
Ammonia (mg/L)	5 th percentile	0.01	0.03*	0.006	0.02	0.005	0.03	0.05	0.01	0.02*	0.01
	95 th percentile	0.27	0.20*	0.19	0.19	0.03	0.17	0.19	0.36	0.14*	0.36
	median	0.05	0.17*	0.05	0.06	0.02	0.07	0.05	0.09	0.08*	0.05
Chlorophyll-a (µg/L)	5 th percentile	0.50	2.5*	0.5	1.1	0.5	1.33	0.92*	0.5	0.5	0.5
	95 th percentile	20.8	13.6*	7.68	21.8	30.8	69.7	1.0*	16.12	10.8	16.3
	median	2.5	5.92*	2.5	2.7	4.05	2.75	0.96*	1.0	2.5	2.5
pH	5 th percentile	5.7	5.79	5.32	5.5	5.8	5.73	6.3	5.23	6.76	5.6
	95 th percentile	7.5	7.04	7.2	6.63	7.2	6.83	7.43	7.2	7.29	7.2
	median	6.43	6.55	5.9	6.03	6.5	6.23	6.5	6.1	6.99	6.6
Secchi Depth (m)	5 th percentile	0.18	0.35	0.15	0.12	0.2	0.2	0.22	0.27	0.37	0.21
	95 th percentile	0.9	0.57	0.71	0.46	1.0	0.98	1.0	0.79	0.96	0.84
	median	0.44	0.44	0.4	0.27	0.5	0.4	0.63	0.5	0.48	0.45

* = less than 10 samples

n/a= no data

Appendix C - 6 CONT. Water quality parameters for ecoregions 33 and 35.

		Ecoregion 35	Lake Creek	Little Cypress Bayou	Little Pine Island Bayou	Peach Creek	Piney Creek	San Pedro Creek	West Fork of the San Jacinto River	White Oak Creek
			11366, 11367, 17331	10335	15346	17746	10530	22071	11250	10341
Dissolved Oxygen (mg/L)	5 th percentile	1.71	5.2	2.9	1.11	6.88	3.6	6.8*	6.1	6.8
	95 th percentile	10.7	10.4	6.5	9.18	11.28	7.77	6.8*	11.2	8.9
	mean	6.85	7.59	4.5	4.85	8.7	4.63	6.8*	8.45	7.1
Total Phosphorus (mg/L)	5 th percentile	0.03	0.04	0.08	0.03	0.03	0.09*	n/a	0.03	0.02*
	95 th percentile	0.38	0.43	0.43	0.48	0.15	0.24*	n/a	0.38	0.05*
	median	0.1	0.13	0.2	0.07	0.07	0.18*	n/a	0.1	0.03*
Ammonia (mg/L)	5 th percentile	0.01	0.01	0.01	0.03	0.01	0.02*	n/a	0.01	0.005*
	95 th percentile	0.27	0.2	0.29	0.3	0.07	0.12*	n/a	0.2	0.14*
	median	0.05	0.05	0.07	0.06	0.03	0.07*	n/a	0.05	0.02*
Chlorophyll-a (µg/L)	5 th percentile	0.50	0.5	0.04	1.29	0.6	1.27*	n/a	0.5	0.5*
	95 th percentile	20.8	7.4	117	4.14	7.54	6.14*	n/a	22.15	7.44*
	median	2.5	1.7	2.5	1.5	1.5	2.5*	n/a	5.0	1.33*
pH	5 th percentile	5.7	6.4	5.7	5.52	6.5	6.24	7.3*	6.89	6.11
	95 th percentile	7.5	7.75	7	7	7.6	6.94	7.3*	8.1	6.88
	median	6.43	7.3	6.31	6.4	7	6.85	7.3*	7.45	6.14
Secchi Depth (m)	5 th percentile	0.18	0.15	0.18	0.18	0.12	n/a	0.32*	0.13	0.32*
	95 th percentile	0.9	0.85	0.65	0.76	0.94	n/a	0.32*	0.79	0.57*
	median	0.44	0.35	0.33	0.39	0.47	n/a	0.32*	0.45	0.38*

* = less than 10 samples

n/a= no data

Appendix C - 7. Water quality parameters for ecoregion 34.

		Ecoregion 34	Arenosa Creek	Big Creek	Garcitas Creek	Placedo Creek	West Bernard Creek	West Carancahua Creek	West Mustang Creek
			13295	11518, 16353, 17932	13291	13288	12131	13293	12522
Dissolved Oxygen (mg/L)	5 th percentile	2.01	3.50	1.09	5.79	1.03	3.99	6.13	4.12
	95 th percentile	10.21	9.85	10.43	10.91	6.07	10.71	9.91	8.24
	mean	5.61	4.95	6.72	7.33	3.24	5.39	7.59	5.64
Total Phosphorus (mg/L)	5 th percentile	0.02	0.09	0.12	0.01	0.07*	0.08	0.10	0.16*
	95 th percentile	0.67	0.51	0.76	0.12	0.40*	0.49	0.60	0.37*
	median	0.23	0.22	0.29	0.03	0.15*	0.23	0.29	0.27*
Ammonia (mg/L)	5 th percentile	0.01	0.01	0.03	0.01	0.01*	0.03	0.03	0.02*
	95 th percentile	0.38	0.91	0.30	0.19	0.30*	0.43	0.16	0.06*
	median	0.06	0.03	0.07	0.04	0.02*	0.06	0.06	0.04*
Chlorophyll-a (µg/L)	5 th percentile	0.50	0.50	1.50	0.83	1.25*	1.21	0.50	6.36*
	95 th percentile	65.90	52.12	39.86	22.50	10.80*	19.38	30.88	11.70*
	median	5.00	4.45	5.60	2.65	3.50*	4.52	5.08	9.03*
pH	5 th percentile	6.80	6.85	7.00	5.79	6.85	6.45	7.53	7.29
	95 th percentile	8.54	8.18	8.40	10.91	7.60	7.90	8.71	7.44
	median	7.65	7.64	7.80	8.00	7.19	7.30	7.34	7.35
Secchi Depth (m)	5 th percentile	0.05	0.15	0.03	0.20*	n/a	0.09	0.02	0.22*
	95 th percentile	0.64	0.47	0.45	0.81*	n/a	0.89	0.37	0.22*
	median	0.20	0.34	0.17	0.30*	n/a	0.27	0.10	0.22*

* = less than 10 samples

n/a= no data