

Appendix E

Summary Statistics

Table 1: Summary Statistics of Sampled Data by Entity and Watershed

Entity	Arlington			Dallas			Fort Worth		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore Creek	Marine Creek
Total Arsenic (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 0.002	< 0.002	< 0.002	< 0.010	< 0.004	0.002	0.011	< 0.002	0.001
Maximum	0.012	0.010	0.010	0.005	0.006	0.006	0.025	0.003	0.001
Median	0.004	0.002	0.003	0.005	0.002	0.002	0.013	0.003	0.001
Arithmetic Mean	0.004	0.003	0.004	0.005	0.002	0.003	0.015	0.002	0.001
Geometric Mean	0.003	0.002	0.003	0.005	0.002	0.002	0.014	0.002	0.001
Standard Deviation	0.004	0.003	0.003	0.005	0.001	0.002	0.006	0.001	0.000
Coefficient of Variation	0.893	0.899	0.766	0.005	0.693	0.598	0.394	0.433	0.000
BOD, 5-day (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 3.00	2.40	4.82	< 2.00	0.75	2.10	< 2.00	< 0.45	5.40
Maximum	30.00	25.00	40.30	31.60	15.70	92.40	5.00	1.00	7.90
Median	7.71	9.11	14.35	6.19	8.89	11.80	1.00	0.23	6.20
Arithmetic Mean	10.59	10.44	15.84	9.35	8.11	25.04	2.00	0.48	6.50
Geometric Mean	6.68	8.47	13.65	6.23	6.61	12.93	1.59	0.37	6.42
Standard Deviation	10.00	7.26	9.43	9.09	4.09	30.23	1.73	0.45	1.28
Coefficient of Variation	0.94	0.70	0.60	0.97	0.51	1.21	0.87	0.93	0.20
COD (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 1.00	< 1.00	34.00	< 20.00	< 5.00	5.31	11.00	13.00	< 4.20
Maximum	310.00	67.10	112.00	244.00	44.90	301.00	213.00	18.50	48.30
Median	36.55	20.95	72.35	41.10	14.30	64.40	63.00	15.80	46.30
Arithmetic Mean	59.26	28.63	69.34	57.46	16.98	93.77	105.60	15.77	32.23
Geometric Mean	27.76	18.42	64.91	38.30	9.60	55.25	62.93	15.61	16.75
Standard Deviation	82.96	21.48	25.27	57.29	15.38	97.29	97.99	2.75	26.12
Coefficient of Variation	1.40	0.75	0.36	1.00	0.91	1.04	0.93	0.17	0.81

Entity	Arlington			Dallas			Fort Worth		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore Creek	Marine Creek
Total Chromium (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	0.003	< 0.004	< 0.004	< 0.006	< 0.001	0.002	< 0.006	< 0.002	< 0.002
Maximum	0.026	0.010	0.011	0.057	0.010	0.030	0.013	0.001	0.001
Median	0.007	0.002	0.005	0.003	0.001	0.006	0.003	0.001	0.001
Arithmetic Mean	0.010	0.003	0.004	0.010	0.003	0.009	0.005	0.001	0.001
Geometric Mean	0.008	0.002	0.003	0.006	0.002	0.006	0.003	0.001	0.001
Standard Deviation	0.008	0.003	0.003	0.013	0.003	0.008	0.004	0.000	0.000
Coefficient of Variation	0.765	0.871	0.698	1.365	1.127	0.874	0.994	0.000	0.000
Total Copper (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 0.008	< 0.010	< 0.008	< 0.010	< 0.004	0.004	< 0.006	< 0.006	< 0.006
Maximum	0.044	0.066	0.122	0.077	0.016	0.045	0.005	0.010	0.012
Median	0.023	0.022	0.043	0.012	0.002	0.012	0.003	0.009	0.009
Arithmetic Mean	0.023	0.027	0.045	0.019	0.004	0.015	0.004	0.007	0.008
Geometric Mean	0.020	0.022	0.028	0.012	0.003	0.012	0.004	0.006	0.007
Standard Deviation	0.011	0.018	0.033	0.020	0.004	0.012	0.001	0.004	0.004
Coefficient of Variation	0.463	0.651	0.749	1.075	1.159	0.750	0.304	0.523	0.564
E.coli (col/100 mL)									
No. of Samples	12	12	12	16	11	15	5	3	3
Minimum	< 10	< 1	60	< 1	30	565	46	38	579
Maximum	31,300	100,000	500,000	48,000	64,880	241,960	15,531	93	12,033
Median	650	1,700	6,500	674	792	24,196	517	75	1,986
Arithmetic Mean	5,479	16,473	75,389	5,052	11,246	67,647	3,708	69	4,866
Geometric Mean	434	852	5,830	442	1,414	16,444	805	64	2,401
Standard Deviation	10,070	31,588	158,384	12,396	20,914	94,045	6,650	28	6,247
Coefficient of Variation	1.84	1.92	2.10	2.45	1.86	1.39	1.79	0.41	1.28
Field pH (su)									
No. of Samples	6	12	11	10	12	15	5	*	3
Minimum	6.82	6.80	7.73	7.60	7.42	7.03	7.70	*	6.98
Maximum	7.54	8.34	8.70	7.80	8.23	8.19	8.10	*	7.76
Median	7.40	7.82	8.16	7.75	7.75	7.53	7.80	*	7.74
Arithmetic Mean	7.32	7.72	8.15	7.72	7.78	7.58	7.90	*	7.49
Geometric Mean	7.32	7.71	8.15	7.72	7.78	7.58	7.89	*	7.48
Standard Deviation	0.26	0.39	0.34	0.09	0.24	0.30	0.19	*	0.45
Coefficient of Variation	0.04	0.05	0.04	0.01	0.03	0.04	0.02	*	0.06

Entity	Arlington			Dallas			Fort Worth		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore Creek	Marine Creek
Lab pH (su)									
No. of Samples	12	12	12	9	*	*	*	3	*
Minimum	7.11	6.74	6.88	7.25	*	*	*	7.38	*
Maximum	8.46	8.07	8.23	7.93	*	*	*	7.92	*
Median	7.51	7.56	7.36	7.78	*	*	*	7.83	*
Arithmetic Mean	7.50	7.53	7.38	7.71	*	*	*	7.71	*
Geometric Mean	7.49	7.51	7.37	7.71	*	*	*	7.71	*
Standard Deviation	0.36	0.42	0.37	0.25	*	*	*	0.29	*
Coefficient of Variation	0.05	0.06	0.05	0.03	*	*	*	0.04	*
Total Lead (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 0.004	< 0.004	< 0.004	< 0.012	0.001	0.002	< 0.026	< 0.002	0.003
Maximum	0.009	0.016	0.020	0.116	0.014	0.059	0.025	0.002	0.009
Median	0.002	0.007	0.013	0.006	0.002	0.013	0.013	0.002	0.008
Arithmetic Mean	0.003	0.008	0.011	0.023	0.004	0.017	0.018	0.002	0.007
Geometric Mean	0.003	0.006	0.008	0.014	0.003	0.012	0.016	0.002	0.006
Standard Deviation	0.002	0.006	0.007	0.028	0.004	0.016	0.007	0.001	0.003
Coefficient of Variation	0.723	0.678	0.647	1.202	1.077	0.928	0.391	0.371	0.484
Total Nitrogen (mg/L)									
No. of Samples	12	12	12	19	12	12	5	3	3
Minimum	< 0.050	< 0.050	< 0.050	0.458	< 0.450	1.340	< 0.230	0.460	1.100
Maximum	91.00	5.000	5.200	7.430	1.730	40.60	1.010	0.750	2.000
Median	9.750	1.150	1.700	1.680	1.095	2.730	0.329	0.620	1.800
Arithmetic Mean	18.47	1.597	1.781	2.131	0.948	5.958	0.442	0.610	1.633
Geometric Mean	5.212	0.569	0.664	1.639	0.804	3.261	0.309	0.598	1.582
Standard Deviation	26.01	1.560	1.646	1.752	0.457	10.968	0.384	0.145	0.473
Coefficient of Variation	1.41	0.98	0.92	0.82	0.48	1.84	0.87	0.24	0.29
Oil and Grease (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 1.40	< 1.40	< 1.40	< 5.00	< 1.06	0.55	< 5.20	< 0.85	1.00
Maximum	11.6	263	9.60	2.50	2.63	4.90	36.2	3.80	1.60
Median	0.70	1.78	2.60	2.50	0.53	0.55	2.70	0.43	1.30
Arithmetic Mean	2.58	24.0	3.23	2.50	0.82	1.50	12.4	1.55	1.30
Geometric Mean	1.40	2.76	2.19	2.50	0.67	0.98	6.54	0.88	1.28
Standard Deviation	3.40	75.3	2.80	0.00	0.69	1.58	14.8	1.95	0.30
Coefficient of Variation	1.32	3.14	0.87	0.00	0.84	1.06	1.20	1.26	0.23

Entity	Arlington			Dallas			Fort Worth		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore Creek	Marine Creek
Dissolved Phosphorus (mg/L)									
No. of Samples	12	12	12	18	12	15	5	3	3
Minimum	< 0.050	< 0.050	< 0.050	< 0.010	< 0.006	0.072	0.060	0.017	0.041
Maximum	0.025	0.110	0.140	0.316	0.297	0.699	0.290	0.031	0.110
Median	0.025	0.050	0.050	0.095	0.032	0.179	0.140	0.017	0.095
Arithmetic Mean	0.025	0.060	0.057	0.090	0.083	0.235	0.156	0.022	0.082
Geometric Mean	0.025	0.052	0.048	0.058	0.025	0.191	0.136	0.021	0.075
Standard Deviation	0.000	0.031	0.037	0.076	0.099	0.169	0.089	0.008	0.036
Coefficient of Variation	0.000	0.528	0.643	0.843	1.195	0.717	0.571	0.373	0.443
Total Phosphorus (mg/L)									
No. of Samples	12	12	12	18	12	15	5	3	3
Minimum	< 0.050	< 0.050	< 0.050	0.039	0.013	0.224	< 0.010	0.028	0.053
Maximum	0.380	0.139	0.340	2.210	0.891	1.350	0.290	0.051	0.170
Median	0.058	0.085	0.175	0.356	0.134	0.420	0.190	0.036	0.160
Arithmetic Mean	0.134	0.082	0.181	0.571	0.219	0.480	0.143	0.038	0.128
Geometric Mean	0.077	0.072	0.141	0.345	0.131	0.428	0.073	0.037	0.113
Standard Deviation	0.132	0.039	0.101	0.617	0.249	0.278	0.118	0.012	0.065
Coefficient of Variation	0.989	0.478	0.557	1.080	1.134	0.578	0.825	0.305	0.508
Total Coliforms (mg/L)									
No. of Samples	12	12	12	16	11	15	5	3	3
Minimum	< 10	173	8,400	3,600	1,010	30,760	17,329	1,413	9,804
Maximum	482,000	3,200,000	5,200,000	1,000,000	241,960	241,960	98,040	1,986	77,010
Median	30,750	56,700	685,000	32,500	35,100	241,960	57,940	1,414	24,192
Arithmetic Mean	122,317	324,921	1,199,950	96,306	99,129	211,024	53,234	1,604	37,002
Geometric Mean	17,820	27,291	375,991	30,244	29,165	192,038	43,926	1,583	26,335
Standard Deviation	166,813	908,676	1,598,915	243,492	113,922	63,628	33,169	331	35,387
Coefficient of Variation	1.36	2.80	1.33	2.53	1.15	0.30	0.62	0.21	0.96

Entity	Arlington			Dallas			Fort Worth		
Watershed	Rush Creek	Johnson Creek	Mountain Creek	Dallas East Bank	Dallas West Bank	Southeast Dallas	Big Fossil Creek	Lower Sycamore Creek	Marine Creek
TDS (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	92.0	132	88.0	132	28.0	32.0	330	44.0	204
Maximum	1,500	688	412	470	721	320	459	1,610	308
Median	325	316	142	302	215	146	340	446	268
Arithmetic Mean	531	371	185	310	303	146	366	700	260
Geometric Mean	368	335	160	294	227	119	363	316	256
Standard Deviation	482	165	109	99	215	84.0	55	813	52.5
Coefficient of Variation	0.91	0.45	0.59	0.32	0.71	0.58	0.15	1.16	0.20
TSS (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	1.770	5.330	4.000	< 5.00	< 5.00	15.00	< 2.00	1.000	5.700
Maximum	1,360	426.0	930.0	1770	81.00	1200.0	502.0	3.670	47.30
Median	166.5	35.52	186.0	100.0	40.50	98.0	34.00	3.200	42.00
Arithmetic Mean	309.6	117.0	282.8	365.8	42.42	244.3	119.8	2.623	31.67
Geometric Mean	115.3	45.24	134.0	86.57	28.40	122.1	15.98	2.273	22.46
Standard Deviation	403.8	149.9	307.4	534.1	26.71	317.6	215.1	1.425	22.64
Coefficient of Variation	1.30	1.28	1.09	1.46	0.63	1.30	1.80	0.54	0.72
Total Zinc (mg/L)									
No. of Samples	12	12	12	19	12	15	5	3	3
Minimum	< 0.004	0.019	< 0.004	< 0.010	< 0.004	0.024	< 0.006	0.009	0.010
Maximum	0.108	0.122	0.168	0.199	0.108	0.215	0.038	0.025	0.064
Median	0.044	0.034	0.073	0.025	0.024	0.054	0.008	0.019	0.048
Arithmetic Mean	0.047	0.046	0.074	0.059	0.027	0.073	0.013	0.018	0.041
Geometric Mean	0.034	0.040	0.036	0.033	0.016	0.059	0.009	0.016	0.031
Standard Deviation	0.028	0.031	0.057	0.064	0.028	0.056	0.014	0.008	0.028
Coefficient of Variation	0.608	0.666	0.765	1.082	1.025	0.762	1.088	0.445	0.691

Entity	Garland			Irving			Mesquite	
Watershed	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek
Total Arsenic (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002
Maximum	0.050	0.010	0.006	0.015	0.010	0.060	0.027	0.027
Median	0.004	0.001	0.004	0.002	0.004	0.001	0.003	0.005
Arithmetic Mean	0.010	0.003	0.003	0.003	0.004	0.007	0.004	0.007
Geometric Mean	0.004	0.002	0.003	0.002	0.003	0.002	0.003	0.006
Standard Deviation	0.015	0.004	0.002	0.004	0.003	0.017	0.006	0.007
Coefficient of Variation	1.458	1.062	0.617	1.159	0.666	2.335	1.362	0.925
BOD, 5-Day (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 3.00	< 2.00	< 0.407	< 3.00	< 2.00	2.39	0.62	3.37
Maximum	23.00	13.00	12.30	135.00	39.70	280.00	32.00	18.00
Median	9.31	3.20	3.30	4.96	22.15	6.64	6.32	7.27
Arithmetic Mean	9.77	4.28	4.70	16.75	21.42	30.58	7.60	8.12
Geometric Mean	7.37	2.90	3.29	5.55	16.63	8.63	5.17	7.22
Standard Deviation	6.62	3.78	3.55	37.61	10.64	78.80	6.91	4.27
Coefficient of Variation	0.68	0.88	0.76	2.25	0.50	2.58	0.91	0.53
COD (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	1.00	< 10.00	2.15	< 10.00	22.70	20.30	5.00	< 1.00
Maximum	268.00	68.90	87.00	130.00	97.40	410.00	109.00	80.10
Median	31.00	11.25	28.85	33.05	56.10	39.60	29.00	27.60
Arithmetic Mean	50.45	22.05	33.44	48.24	61.47	74.02	44.94	30.69
Geometric Mean	27.02	14.91	24.22	33.39	55.18	46.29	33.20	14.91
Standard Deviation	70.76	21.01	23.18	43.13	27.78	108.44	33.94	25.54
Coefficient of Variation	1.40	0.95	0.69	0.89	0.45	1.47	0.76	0.83
Total Chromium (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Maximum	0.012	0.010	0.005	0.041	0.010	0.010	0.021	0.011
Median	0.005	0.004	0.002	0.006	0.002	0.003	0.005	0.004
Arithmetic Mean	0.006	0.004	0.003	0.009	0.004	0.004	0.006	0.005
Geometric Mean	0.005	0.003	0.003	0.005	0.003	0.003	0.004	0.004
Standard Deviation	0.004	0.003	0.002	0.011	0.003	0.003	0.005	0.004
Coefficient of Variation	0.646	0.777	0.541	1.221	0.795	0.742	0.802	0.778

Entity	Garland			Irving			Mesquite	
Watershed	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek
Total Copper (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.008	0.016	< 0.008	< 0.008	< 0.010	< 0.008	< 0.008	0.010
Maximum	0.033	0.049	0.054	0.038	0.047	0.617	0.058	0.035
Median	0.021	0.028	0.016	0.015	0.033	0.044	0.024	0.022
Arithmetic Mean	0.021	0.030	0.021	0.015	0.031	0.092	0.026	0.022
Geometric Mean	0.019	0.027	0.014	0.011	0.027	0.043	0.020	0.021
Standard Deviation	0.007	0.012	0.018	0.011	0.013	0.168	0.016	0.007
Coefficient of Variation	0.352	0.413	0.851	0.756	0.407	1.827	0.589	0.332
E. coli (col/100 mL)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 10	< 1	< 1	26	< 1	< 1	< 1	< 1
Maximum	144,000	700,000	4,800	10,000	300,000	240,000	15,400	2,300,000
Median	1,185	682	110	950	6,480	2,050	345	1,045
Arithmetic Mean	19,538	70,506	1,113	2,313	33,336	21,872	2,036	359,491
Geometric Mean	557	1,426	223	607	3,421	1,184	131	996
Standard Deviation	44,787	199,354	1,582	3,420	84,703	68,714	3,559	838,789
Coefficient of Variation	2.29	2.83	1.42	1.48	2.54	3.14	1.75	2.33
Field pH (su)								
No. of Samples	12	12	12	6	13	11	24	12
Minimum	6.99	7.35	7.60	6.87	7.42	7.70	6.90	7.76
Maximum	8.15	9.95	9.41	7.57	8.38	8.18	10.40	9.03
Median	7.66	8.50	8.73	7.18	7.84	7.99	7.97	8.03
Arithmetic Mean	7.66	8.53	8.53	7.19	7.86	7.99	8.26	8.19
Geometric Mean	7.65	8.50	8.50	7.19	7.86	7.99	8.22	8.18
Standard Deviation	0.34	0.75	0.71	0.25	0.27	0.15	0.93	0.42
Coefficient of Variation	0.04	0.09	0.08	0.04	0.03	0.02	0.11	0.05
Lab pH (su)								
No. of Samples	12	12	12	12	13	12	24	12
Minimum	7.22	6.85	7.53	7.02	6.82	6.50	7.04	6.63
Maximum	7.93	8.08	7.99	8.12	8.01	8.15	8.93	7.84
Median	7.46	7.60	7.71	7.64	7.21	7.63	7.54	7.44
Arithmetic Mean	7.50	7.52	7.73	7.56	7.34	7.45	7.60	7.32
Geometric Mean	7.50	7.51	7.73	7.55	7.33	7.44	7.59	7.31
Standard Deviation	0.19	0.43	0.15	0.34	0.39	0.50	0.38	0.39
Coefficient of Variation	0.03	0.06	0.02	0.05	0.05	0.07	0.05	0.05

Entity	Garland			Irving			Mesquite	
Watershed	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek
Total Lead (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.002	< 0.004	< 0.004	< 0.002	0.005	< 0.004	< 0.002	0.009
Maximum	0.020	0.062	0.011	0.009	0.033	0.351	0.015	0.026
Median	0.002	0.010	0.005	0.002	0.010	0.010	0.005	0.012
Arithmetic Mean	0.006	0.015	0.005	0.002	0.012	0.037	0.007	0.014
Geometric Mean	0.004	0.009	0.004	0.002	0.011	0.009	0.005	0.013
Standard Deviation	0.006	0.017	0.003	0.002	0.007	0.099	0.005	0.006
Coefficient of Variation	1.057	1.149	0.660	0.856	0.596	2.689	0.695	0.401
Total Nitrogen (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	0.750	< 0.050	2.200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Maximum	17.40	5.000	7.900	25.80	8.000	4.370	63.00	11.00
Median	5.345	1.400	4.100	9.500	3.260	1.800	2.200	3.085
Arithmetic Mean	7.733	1.985	4.883	11.45	3.438	1.883	6.965	3.666
Geometric Mean	4.054	1.022	4.484	6.342	2.078	1.305	2.055	2.247
Standard Deviation	7.110	1.579	2.084	7.735	2.410	1.091	13.80	2.866
Coefficient of Variation	0.92	0.80	0.43	0.68	0.70	0.58	1.98	0.78
Oil and Grease (mg/L)								
No. of Samples	12	12	12	12	13	12	24	12
Minimum	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Maximum	56.3	516	5.40	4.50	24.3	17.5	16.3	6.70
Median	1.15	1.55	0.70	0.70	1.80	0.70	0.70	1.55
Arithmetic Mean	5.93	45.1	1.63	1.23	4.32	3.01	2.09	2.76
Geometric Mean	1.59	2.73	1.10	0.97	2.53	1.31	1.18	2.02
Standard Deviation	15.9	148	1.82	1.14	6.25	5.03	3.49	2.12
Coefficient of Variation	2.68	3.29	1.11	0.93	1.45	1.67	1.67	0.77
Dissolved Phosphorus (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Maximum	0.241	0.190	0.630	0.365	0.280	0.530	2.40	0.330
Median	0.025	0.038	0.165	0.025	0.050	0.075	0.050	0.070
Arithmetic Mean	0.043	0.070	0.188	0.082	0.105	0.168	0.159	0.115
Geometric Mean	0.030	0.050	0.136	0.047	0.064	0.080	0.058	0.076
Standard Deviation	0.062	0.062	0.159	0.106	0.105	0.212	0.479	0.103
Coefficient of Variation	1.450	0.890	0.843	1.298	0.999	1.264	3.022	0.893

Entity	Garland			Irving			Mesquite	
Watershed	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek
Total Phosphorus (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Maximum	1.570	0.300	0.646	0.330	0.470	0.790	3.850	0.330
Median	0.025	0.070	0.270	0.025	0.221	0.255	0.111	0.149
Arithmetic Mean	0.247	0.112	0.280	0.080	0.202	0.330	0.302	0.161
Geometric Mean	0.079	0.078	0.231	0.042	0.129	0.217	0.122	0.125
Standard Deviation	0.446	0.098	0.149	0.118	0.151	0.270	0.764	0.100
Coefficient of Variation	1.805	0.875	0.532	1.480	0.748	0.820	2.526	0.623
Total Coliforms (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 10	5,910	400	< 10	9,300	1,800	< 1	2,800
Maximum	460,000	34,000,000	800,000	180,000	54,000,000	28,000,000	1,900,000	35,400,000
Median	57,000	66,350	285,000	7,555	118,500	690,000	59,500	68,300
Arithmetic Mean	132,955	3,595,914	305,558	26,284	4,699,833	3,679,233	227,231	6,551,475
Geometric Mean	6,651	140,173	58,558	3,654	155,034	468,840	8,642	169,620
Standard Deviation	167,882	9,746,265	280,718	50,160	15,528,529	8,106,453	399,086	12,231,641
Coefficient of Variation	1.26	2.71	0.92	1.91	3.30	2.20	1.76	1.87
TDS (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	85.0	246	62.0	80.0	56.0	36.0	70.0	168
Maximum	1,110	668	518	876	630	1,250	20,300	636
Median	318	443	421	293	241	361	244	272
Arithmetic Mean	362	450	369	333	268	405	1,097	317
Geometric Mean	306	427	330	285	207	276	264	297
Standard Deviation	255	149	133	211	192	330	4,093	131
Coefficient of Variation	0.70	0.33	0.36	0.63	0.72	0.82	3.73	0.41

Entity	Garland			Irving			Mesquite	
Watershed	Duck Creek	Spring Creek	Lower Rowlett Creek	Cottonwood Branch	Delaware Creek	Big Bear Creek	South Mesquite Creek	North Mesquite Creek
TSS (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	12.50	3.000	2.000	32.50	< 0.944	16.00	6.000	< 0.944
Maximum	1,660	572.0	896.0	1,060	87.00	1,118	1,566	292.7
Median	114.0	42.34	88.00	155.5	48.50	97.50	108.5	26.00
Arithmetic Mean	275.4	148.4	279.8	290.8	51.11	267.5	267.8	56.66
Geometric Mean	93.95	43.51	62.37	169.3	34.19	105.4	122.4	24.20
Standard Deviation	470.7	194.9	332.3	321.0	27.55	365.1	346.8	80.63
Coefficient of Variation	1.71	1.31	1.19	1.10	0.54	1.37	1.30	1.42
Total Zinc (mg/L)								
No. of Samples	12	12	12	12	12	12	24	12
Minimum	< 0.004	0.016	< 0.004	< 0.004	0.013	< 0.004	< 0.004	0.029
Maximum	0.129	0.108	0.070	0.088	0.132	1.407	0.201	0.070
Median	0.033	0.040	0.029	0.028	0.065	0.070	0.053	0.043
Arithmetic Mean	0.048	0.045	0.028	0.031	0.070	0.190	0.059	0.047
Geometric Mean	0.032	0.037	0.014	0.015	0.061	0.062	0.040	0.046
Standard Deviation	0.040	0.029	0.022	0.028	0.032	0.392	0.042	0.014
Coefficient of Variation	0.832	0.643	0.811	0.909	0.460	2.064	0.718	0.296

Entity	NTTA				Plano			TxDOT		
Watershed	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Total Arsenic (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Maximum	0.010	0.030	0.025	0.001	0.010	0.010	0.012	0.015	0.005	0.006
Median	0.001	0.009	0.002	0.001	0.001	0.003	0.004	0.003	0.002	0.003
Arithmetic Mean	0.003	0.009	0.007	0.001	0.002	0.004	0.004	0.007	0.003	0.003
Geometric Mean	0.002	0.006	0.003	0.001	0.001	0.003	0.003	0.004	0.002	0.002
Standard Deviation	0.003	0.009	0.012	0.000	0.003	0.003	0.003	0.007	0.002	0.002
Coefficient of Variation	1.050	0.984	1.633	0.000	1.297	0.896	0.816	0.982	0.676	0.690
BOD, 5-Day (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	<3.00	2.80	1.80	4.46	<3.00	< 2.00	3.13	<3.00	2.40	5.36
Maximum	11.20	21.00	16.00	14.10	6.82	10.00	28.60	22.00	20.00	17.20
Median	4.23	8.42	10.19	7.37	3.48	5.29	10.48	8.41	11.42	5.71
Arithmetic Mean	4.83	10.82	9.55	8.32	3.90	5.24	12.72	10.05	10.57	8.40
Geometric Mean	3.64	8.31	7.24	7.60	3.28	4.14	10.10	6.56	8.85	7.40
Standard Deviation	3.70	7.71	6.31	4.19	2.23	2.96	8.92	8.20	5.83	5.08
Coefficient of Variation	0.77	0.71	0.66	0.50	0.57	0.57	0.70	0.82	0.55	0.61
COD (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 1.00	10.20	23.00	4.90	< 1.00	< 1.00	15.70	15.90	< 1.00	21.90
Maximum	79.00	77.90	62.30	46.00	89.00	113.00	59.00	900.00	85.00	90.80
Median	19.80	36.00	41.45	30.50	12.90	28.55	38.55	45.45	13.50	53.70
Arithmetic Mean	27.51	40.29	42.05	27.98	24.58	33.41	36.44	147.21	35.10	54.69
Geometric Mean	11.55	31.81	38.35	20.86	13.58	17.35	33.68	52.06	16.15	47.52
Standard Deviation	28.15	26.61	19.93	18.71	26.64	32.26	13.97	304.81	35.44	28.61
Coefficient of Variation	1.02	0.66	0.47	0.67	1.08	0.97	0.38	2.07	1.01	0.52
Total Chromium (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Maximum	0.024	0.018	0.080	0.008	0.030	0.018	0.008	0.020	0.005	0.017
Median	0.007	0.005	0.002	0.003	0.005	0.004	0.002	0.005	0.003	0.004
Arithmetic Mean	0.009	0.007	0.021	0.004	0.007	0.006	0.003	0.007	0.003	0.005
Geometric Mean	0.006	0.005	0.004	0.003	0.004	0.004	0.002	0.005	0.003	0.004
Standard Deviation	0.008	0.006	0.039	0.003	0.008	0.005	0.002	0.006	0.001	0.005
Coefficient of Variation	0.890	0.819	1.858	0.784	1.210	0.852	0.731	0.894	0.489	1.017

Entity	NTTA				Plano			TxDOT		
Watershed	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Total Copper (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	0.016	0.028	0.027	< 0.008	< 0.008	< 0.020	< 0.008	< 0.008	< 0.010	< 0.008
Maximum	0.032	0.060	0.093	0.070	0.140	0.049	0.050	0.065	0.053	0.064
Median	0.023	0.034	0.055	0.036	0.019	0.024	0.039	0.026	0.028	0.050
Arithmetic Mean	0.024	0.041	0.057	0.037	0.028	0.027	0.030	0.030	0.032	0.041
Geometric Mean	0.023	0.039	0.049	0.017	0.019	0.024	0.020	0.020	0.027	0.028
Standard Deviation	0.006	0.012	0.035	0.038	0.036	0.013	0.019	0.022	0.017	0.024
Coefficient of Variation	0.231	0.304	0.606	1.029	1.296	0.478	0.640	0.729	0.512	0.581
E. coli (col/100 mL)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 10	1,640	300	100	< 10	< 1	< 1	< 10	< 1	< 1
Maximum	54,300	200,000	9,000	6,200	31,000	360,000	11,000	20,000	46,400	12,000
Median	365	28,650	2,850	2,600	4,400	908	1,650	3,820	4,500	3,700
Arithmetic Mean	8,071	61,345	3,750	2,875	7,668	34,100	2,474	6,219	9,051	4,525
Geometric Mean	253	25,730	2,126	887	1,088	568	657	586	601	435
Standard Deviation	18,892	70,893	3,751	3,185	9,582	102,978	3,054	7,597	15,434	4,579
Coefficient of Variation	2.34	1.16	1.00	1.11	1.25	3.02	1.23	1.22	1.71	1.01
Field pH (su)										
No. of Samples	8	8	3	4	12	12	11	8	8	8
Minimum	7.74	8.34	6.50	6.90	6.34	7.65	7.00	6.06	7.18	7.60
Maximum	8.37	10.21	8.21	9.08	8.68	9.43	8.19	8.80	8.85	9.35
Median	8.05	9.29	6.96	7.07	8.05	8.77	7.22	8.17	7.57	7.85
Arithmetic Mean	8.03	9.21	7.22	7.53	7.70	8.61	7.42	7.84	7.81	8.04
Geometric Mean	8.03	9.19	7.18	7.48	7.65	8.59	7.40	7.79	7.78	8.02
Standard Deviation	0.20	0.58	0.89	1.04	0.84	0.56	0.49	0.96	0.73	0.60
Coefficient of Variation	0.03	0.06	0.12	0.14	0.11	0.07	0.07	0.12	0.09	0.08
Lab pH (su)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	7.16	6.99	7.44	7.49	7.25	6.72	7.15	7.27	6.75	7.17
Maximum	8.07	8.56	8.13	7.76	8.89	7.80	8.34	7.83	8.01	7.98
Median	7.52	7.67	7.96	7.64	7.66	7.57	7.57	7.56	7.57	7.50
Arithmetic Mean	7.53	7.70	7.87	7.63	7.72	7.46	7.56	7.59	7.50	7.51
Geometric Mean	7.52	7.69	7.87	7.63	7.71	7.46	7.56	7.59	7.49	7.51
Standard Deviation	0.30	0.44	0.31	0.12	0.42	0.35	0.36	0.20	0.40	0.27
Coefficient of Variation	0.04	0.06	0.04	0.02	0.05	0.05	0.05	0.03	0.05	0.04

Entity	NTTA				Plano			TxDOT		
Watershed	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Total Lead (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.004	< 0.010	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.010	< 0.004
Maximum	0.228	0.078	0.039	0.038	0.022	0.048	0.015	0.043	0.023	0.025
Median	0.004	0.013	0.006	0.007	0.002	0.010	0.005	0.005	0.008	0.005
Arithmetic Mean	0.033	0.022	0.013	0.014	0.005	0.014	0.005	0.014	0.010	0.009
Geometric Mean	0.006	0.016	0.007	0.007	0.003	0.009	0.004	0.007	0.009	0.007
Standard Deviation	0.079	0.024	0.017	0.017	0.006	0.014	0.004	0.016	0.006	0.009
Coefficient of Variation	2.412	1.058	1.309	1.259	1.186	0.983	0.721	1.166	0.630	0.930
Total Nitrogen (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	1.300	2.200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.500	< 0.050
Maximum	14.00	6.000	2.600	4.800	4.560	8.000	3.300	21.50	10.00	2.200
Median	1.335	2.610	1.900	3.450	1.915	1.300	1.950	2.110	3.465	0.800
Arithmetic Mean	4.371	2.689	1.925	3.475	1.966	2.623	1.869	4.209	3.922	0.922
Geometric Mean	0.966	0.965	1.857	3.334	1.339	0.973	1.210	1.358	2.575	0.299
Standard Deviation	5.952	2.157	0.585	1.124	1.181	2.815	1.066	7.097	3.126	0.889
Coefficient of Variation	1.36	0.80	0.30	0.32	0.60	1.07	0.57	1.69	0.80	0.96
Oil and Grease (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40	< 1.40
Maximum	3.40	316	32.1	0.70	11.4	623	26.6	8.74	266	0.70
Median	0.70	3.25	0.70	0.70	0.70	3.15	0.70	2.24	3.75	0.70
Arithmetic Mean	1.14	43.0	8.55	0.70	2.43	55.0	3.73	3.33	37.0	0.70
Geometric Mean	0.94	4.58	1.82	0.70	1.33	3.79	1.44	1.99	4.86	0.70
Standard Deviation	0.96	110	15.7	0.00	3.34	179	7.42	3.14	92.6	0.00
Coefficient of Variation	0.84	2.57	1.84	0.00	1.37	3.25	1.99	0.94	2.51	0.00
Dissolved Phosphorus (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.000
Maximum	0.253	0.320	0.120	0.420	0.138	0.400	0.180	0.096	0.180	0.130
Median	0.025	0.050	0.042	0.210	0.025	0.050	0.050	0.025	0.050	0.070
Arithmetic Mean	0.076	0.094	0.057	0.216	0.034	0.105	0.059	0.039	0.072	0.080
Geometric Mean	0.048	0.062	0.046	0.135	0.029	0.060	0.048	0.033	0.057	0.075
Standard Deviation	0.086	0.101	0.045	0.185	0.033	0.129	0.044	0.027	0.059	0.030
Coefficient of Variation	1.128	1.075	0.779	0.854	0.948	1.237	0.756	0.691	0.809	0.378

Entity	NTTA				Plano			TxDOT		
	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
Total Phosphorus (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 0.050	< 0.050	< 0.050	0.110	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.000
Maximum	0.786	0.650	1.480	0.290	1.540	0.625	0.29	0.39	0.3	0.55
Median	0.521	0.100	0.120	0.225	0.059	0.090	0.135	0.126	0.095	0.15
Arithmetic Mean	0.464	0.207	0.436	0.212	0.232	0.176	0.138	0.151	0.115	0.206
Geometric Mean	0.341	0.108	0.151	0.200	0.089	0.104	0.097	0.093	0.081	0.152
Standard Deviation	0.245	0.227	0.697	0.075	0.430	0.192	0.1	0.134	0.096	0.171
Coefficient of Variation	0.529	1.093	1.599	0.353	1.853	1.089	0.727	0.889	0.838	0.829
Total Coliforms (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	< 10	1,000	4,400	4,800	< 10	500	1,200	112	2,100	100
Maximum	150,000	63,000,000	630,000	4,300,000	400,000	5,200,000	75,000,000	526,000	3,400,000	800,000
Median	11,950	1,140,000	50,300	101,000	50,350	30,100	410,000	48,000	188,500	118,000
Arithmetic Mean	33,737	11,299,988	183,750	1,126,700	87,601	778,963	6,883,817	155,452	709,263	298,525
Geometric Mean	2,213	579,771	40,326	119,379	11,019	43,996	200,127	27,309	119,742	52,508
Standard Deviation	52,768	22,305,917	300,042	2,116,076	113,482	1,727,401	21,480,669	204,003	1,162,585	337,855
Coefficient of Variation	1.56	1.97	1.63	1.88	1.30	2.22	3.12	1.31	1.64	1.13
TDS (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	155	48.0	624	96.0	110	48.0	32.0	45.0	140	102
Maximum	412	706	746	256	922	520	536	495	414	540
Median	320	160	693	203	373	328	235	270	226	288
Arithmetic Mean	290	245	689	190	418	318	253	253	250	299
Geometric Mean	275	168	688	177	355	276	211	205	239	263
Standard Deviation	94.5	232	50.3	73.6	241	130	134	141	84.2	155
Coefficient of Variation	0.33	0.95	0.07	0.39	0.58	0.41	0.53	0.56	0.34	0.52

Entity	NTTA				Plano			TxDOT		
Watershed	Elm Fork	Spring Creek	Panther Creek	Cottonwood Branch	White Rock Creek	Upper Rowlett Creek	Upper Spring Creek	Muddy Creek	Middle White Rock Creek	Prairie Creek
TSS (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	2.500	< 0.944	41.00	36.00	4.670	1.330	8.000	12.50	23.00	8.000
Maximum	734.0	366.0	284.0	104.0	437.0	2,340	276.0	634.0	295.0	448.0
Median	172.5	81.67	117.0	77.50	87.50	52.17	122.0	98.25	37.85	143.0
Arithmetic Mean	258.5	115.6	139.8	73.75	112.8	458.6	129.6	156.5	81.83	176.9
Geometric Mean	114.9	40.13	102.5	68.70	51.42	59.54	84.70	91.09	53.35	92.12
Standard Deviation	269.6	123.7	115.5	28.76	126.8	798.2	97.20	199.2	93.11	165.9
Coefficient of Variation	1.04	1.07	0.83	0.39	1.12	1.74	0.75	1.27	1.14	0.94
Total Zinc (mg/L)										
No. of Samples	8	8	4	4	12	12	12	8	8	8
Minimum	0.018	0.049	0.016	< 0.004	0.025	0.017	0.005	0.018	0.039	0.019
Maximum	0.198	0.119	0.220	0.748	0.141	0.138	0.126	0.128	0.114	0.286
Median	0.050	0.099	0.049	0.069	0.038	0.037	0.041	0.044	0.058	0.061
Arithmetic Mean	0.063	0.093	0.083	0.222	0.045	0.049	0.050	0.051	0.064	0.092
Geometric Mean	0.047	0.090	0.053	0.048	0.039	0.040	0.035	0.041	0.060	0.065
Standard Deviation	0.058	0.023	0.093	0.352	0.031	0.036	0.037	0.037	0.024	0.088
Coefficient of Variation	0.934	0.246	1.112	1.590	0.707	0.720	0.750	0.719	0.382	0.952

