Appendix D-1. Mean Arsenic Concentrations (µg/g, wet weight [ww]) in Plants, Invertebrates, Whole Body Fish, and Sediment by River Reach (see Figure 1) for the 14-day Lag Flow (see text) and Regression Coefficients if determinable (if not = NA).

RIVER REACH (RIVER MILES)	MATRIX	N	MEAN ARSENIC (µg/g ww)	R^2 VALUE	P-VALUE	BETA VALUE
River Reach 1 RM (0 - 16)	Submerged Plant	2	1.16	NA	NA	NA
	Invertebrate	2	0.19	NA	NA	NA
	Whole Body Fish	23	0.15	0.29	0.01	-0.54
River Reach 2 RM (17 - 67)	Submerged Plant	1	0.93	NA	NA	NA
	Invertebrate	2	0.25	NA	NA	NA
	Whole Body Fish	9	0.13	0.20	0.22	-0.45
River Reach 3 RM (68 - 105)	Submerged Plant	4	1.35	0.93	0.04	-0.96
	Invertebrate	6	0.17	0.06	0.63	0.25
	Whole Body Fish	34	0.09	0.34	0.00	0.58
River Reach 4 RM (107 - 130)	Submerged Plant	2	1.28	NA	NA	NA
	Invertebrate	4	0.28	0.34	0.42	-0.58
	Whole Body Fish	13	0.10	0.39	0.02	0.62
River Reach 5 RM (131 - 154)	Submerged Plant	6	1.39	0.75	0.03	0.87
	Invertebrate	6	0.42	0.70	0.04	0.83
	Whole Body Fish	45	0.09	0.04	0.21	-0.19
River Reach 6 RM (155 - 180)	Sediment	4	2.51	0.60	0.22	-0.78
	Submerged Plant	7	0.88	0.01	0.88	-0.07
	Invertebrate	8	0.42	0.57	0.03	0.75
	Whole Body Fish	73	0.13	0.01	0.38	0.10
River Reach 7 RM (181 - 213)	Submerged Plant	4	1.52	0.95	0.02	-0.98
	Invertebrate	8	0.32	0.33	0.14	0.57
	Whole Body Fish	37	0.10	0.16	0.01	0.40
River Reach 8 RM (213 - 224)	Sediment	13	2.31	0.02	0.65	0.14
	Submerged Plant	25	0.30	0.00	0.98	0.00
	Invertebrate	25	0.28	0.15	0.06	0.39
	Whole Body Fish	79	0.12	0.03	0.10	0.19
Summary for all samples from San Juan River	Sediment	17	2.36	0.00	0.84	0.05
	Submerged Plant	51	0.77	0.05	0.11	-0.23
	Invertebrate	61	0.30	0.06	0.05	0.25
	Whole Body Fish	313	0.12	0.01	0.10	0.09

Appendix D-2. Mean Copper Concentrations (µg/g, wet weight [ww]) in Plants, Invertebrates, Whole Body Fish, and Sediment by River Reach (see Figure 1) for the 14-day Lag Flow (see text) and Regression Coefficients if determinable (if not = NA).

RIVER REACH (RIVER MILES)	MATRIX	N	MEAN COPPER (µg/g ww)	R^2 VALUE	P-VALUE	BETA VALUE
Reach 1 RM (0 - 16)	Submerged Plant	2	3.17	NA	NA	NA
	Invertebrate	2	22.72	NA	NA	NA
	Whole Body Fish	23	0.94	0.14	0.08	-0.37
River Reach 2 RM (17 - 67)	Submerged Plant	1	8.38	NA	NA	NA
	Invertebrate	2	17.18	NA	NA	NA
	Whole Body Fish	9	0.84	0.20	0.23	-0.45
River Reach 3 RM (68 - 105)	Submerged Plant	4	5.35	0.61	0.22	-0.78
	Invertebrate	6	9.78	0.11	0.53	0.33
	Whole Body Fish	34	0.99	0.00	0.85	0.03
River Reach 4 RM (107 - 130)	Submerged Plant	2	5.57	NA	NA	NA
	Invertebrate	4	14.32	0.15	0.61	-0.39
	Whole Body Fish	13	0.98	0.39	0.02	0.63
River Reach 5 RM (131 - 154)	Submerged Plant	6	4.85	0.00	0.92	-0.05
	Invertebrate	6	5.89	0.85	0.01	0.92
	Whole Body Fish	45	0.95	0.02	0.38	-0.14
River Reach 6 RM (155 - 180)	Sediment	4	7.77	0.61	0.22	-0.78
	Submerged Plant	7	3.56	0.01	0.82	-0.10
	Invertebrate	8	5.69	0.24	0.22	-0.49
	Whole Body Fish	73	0.99	0.01	0.45	0.09
River Reach 7 RM (181 - 213)	Submerged Plant	4	3.94	0.18	0.57	-0.43
	Invertebrate	8	4.49	0.26	0.20	-0.51
	Whole Body Fish	37	1.48	0.03	0.27	0.19
River Reach 8 RM (213 - 224)	Sediment	13	9.88	0.01	0.69	-0.12
	Submerged Plant	25	1.79	0.01	0.72	-0.08
	Invertebrate	25	4.05	0.10	0.13	0.31
	Whole Body Fish	79	1.78	0.01	0.31	-0.11
Summary for all samples from San Juan River	Sediment	17	9.38	0.05	0.37	-0.23
	Submerged Plant	51	3.17	0.04	0.16	-0.20
	Invertebrate	61	6.78	0.00	0.75	-0.04
	Whole Body Fish	313	1.23	0.00	0.22	-0.07

Appendix D-3. Mean Selenium Concentrations (µg/g, dry weight [ww]) in Plants, Invertebrates, Whole Body Fish, and Sediment by River Reach (see Figure 1) for the 14-day Lag Flow (see text) and Regression Coefficients if determinable (if not = NA).

RIVER REACH (RIVER MILES)	MATRIX	N	MEAN SELENIUM (µg/g dw)	R^2 VALUE	P-VALUE	BETA VALUE
River Reach 1 RM (0 - 16)	Submerged Plant	2	0.98	NA	NA	NA
	Invertebrate	2	2.92	NA	NA	NA
	Whole Body Fish	23	3.22	0.00	0.92	-0.02
River Reach 2 RM (17 - 67)	Submerged Plant	1	0.90	NA	NA	NA
	Invertebrate	2	3.03	NA	NA	NA
	Whole Body Fish	9	4.24	0.37	0.08	-0.61
River Reach 3 RM (68 - 105)	Submerged Plant	4	0.90	0.56	0.25	0.75
	Invertebrate	6	2.51	0.04	0.69	0.21
	Whole Body Fish	34	3.40	0.15	0.02	0.39
River Reach 4 RM (107 - 130)	Submerged Plant	2	1.09	NA	NA	NA
	Invertebrate	4	3.67	0.00	0.99	0.01
	Whole Body Fish	16	3.50	0.01	0.74	0.09
River Reach 5 RM (131 - 154)	Submerged Plant	6	0.85	0.32	0.24	-0.56
	Invertebrate	10	2.61	0.14	0.28	0.38
	Whole Body Fish	89	2.42	0.01	0.40	0.09
River Reach 6 RM (155 - 180)	Sediment	4	0.08	0.03	0.82	-0.18
	Submerged Plant	12	1.04	0.01	0.80	0.08
	Invertebrate	13	3.60	0.29	0.06	0.54
	Whole Body Fish	148	2.50	0.02	0.10	0.14
River Reach 7 RM (181 - 213)	Submerged Plant	11	1.47	0.02	0.69	-0.14
	Invertebrate	18	5.30	0.01	0.76	0.08
	Whole Body Fish	186	3.34	0.03	0.01	-0.19
River Reach 8 RM (213 - 224)	Sediment	13	0.70	0.00	0.83	0.07
	Submerged Plant	25	1.39	0.05	0.29	-0.22
	Invertebrate	32	5.41	0.12	0.06	-0.34
	Whole Body Fish	102	3.62	0.00	0.69	-0.04
Summary for all samples from San Juan River	Sediment	17	0.55	0.00	0.95	-0.02
	Submerged Plant	64	1.19	0.09	0.47	-0.09
	Invertebrate	86	4.46	0.05	0.04	-0.23
	Whole Body Fish	607	3.07	0.01	0.06	-0.08

Appendix D-4. Mean Zinc Concentrations (µg/g, wet weight [ww]) in Plants, Invertebrates, Whole Body Fish, and Sediment by River Reach (see Figure 1) for the 14-day Lag Flow (see text) and Regression Coefficients if determinable (if not = NA).

RIVER REACH (RIVER MILES)	MATRIX	N	MEAN ZINC (µg/g ww)	R^2 VALUE	P-VALUE	BETA VALUE
River Reach 1 RM (0 - 16)	Submerged Plant	2	8.46	NA	NA	NA
	Invertebrate	2	41.92	NA	NA	NA
	Whole Body Fish	23	29.58	0.01	0.70	0.09
River Reach 2 RM (17 - 67)	Submerged Plant	1	22.68	NA	NA	NA
	Invertebrate	2	28.68	NA	NA	NA
	Whole Body Fish	9	23.42	0.09	0.43	-0.30
River Reach 3 RM (68 - 105)	Submerged Plant	4	18.28	0.80	0.11	-0.89
	Invertebrate	6	42.21	0.74	0.03	-0.86
	Whole Body Fish	34	31.00	0.13	0.04	0.36
River Reach 4 RM (107 - 130)	Submerged Plant	2	21.27	NA	NA	NA
	Invertebrate	4	29.52	0.06	0.75	-0.25
	Whole Body Fish	13	29.74	0.11	0.27	0.33
River Reach 5 RM (131 - 154)	Submerged Plant	6	24.65	0.12	0.49	0.35
	Invertebrate	6	48.30	0.93	0.00	0.96
	Whole Body Fish	45	27.88	0.04	0.21	-0.19
River Reach 6 RM (155 - 180)	Sediment	4	66.49	0.27	0.48	-0.52
	Submerged Plant	7	40.34	0.05	0.63	-0.22
	Invertebrate	8	42.00	0.09	0.46	-0.31
	Whole Body Fish	73	25.56	0.06	0.04	0.24
River Reach 7 RM (181 - 213)	Submerged Plant	4	10.98	0.28	0.47	-0.53
	Invertebrate	8	25.64	0.15	0.34	-0.39
	Whole Body Fish	37	38.37	0.00	0.76	-0.05
River Reach 8 RM (213 - 224)	Sediment	13	33.10	0.01	0.78	0.09
	Submerged Plant	25	4.08	0.02	0.55	0.13
	Invertebrate	25	15.05	0.01	0.69	-0.08
	Whole Body Fish	79	27.06	0.01	0.44	-0.09
Summary for all samples from San Juan River	Sediment	17	40.96	0.00	0.96	0.01
	Submerged Plant	51	14.34	0.01	0.62	-0.07
	Invertebrate	61	28.19	0.07	0.04	-0.26
	Whole Body Fish	313	28.78	0.00	0.67	-0.20