

Appendix B. Concentration-mortality data for the Isleta Site mixture tested with larval Rio Grande silvery minnow and fathead minnow.

Isleta Site mixture treatment	Chemical										Rio Grande silvery minnow mortality (%) at				Fathead minnow mortality (%) at			
	Aluminum (mg/L)		Ammonia (total, mg/L as N) ^{a,b}		Arsenic (mg/L)		Copper (mg/L)		Nitrate (mg/L as N)		mortality (%) at				mortality (%) at			
	Nominal	Measured ^c	Nominal	Measured ^c	Nominal	Measured ^c	Nominal	Measured ^c	Nominal	Measured ^c	24 h	48 h	72 h	96 h	24 h	48 h	72 h	96 h
ISm-9	2.55	2.59	110	105	2.55	2.42	1.70	1.79	272	264	100	100	100	100	100	100	100	100
ISm-8	1.50	1.58	65.0	62.6	1.50	1.46	1.00	1.05	160	159	90	100	100	100	100	100	100	100
ISm-7	0.900	0.943	39.0	37.6	0.900	0.822	0.600	0.621	96.0	97.9	90	100	100	100	100	100	100	100
ISm-6	0.540	0.598	23.4	22.1	0.540	0.503	0.360	0.368	57.6	61.0	0	90	100	100	100	100	100	100
ISm-5	0.324	0.411	14.0	13.9	0.324	0.327	0.216	0.226	34.6	39.5	0	10	60	100	40	100	100	100
ISm-4	0.195	0.281	8.45	7.99	0.195	0.191	0.130	0.137	20.8	23.1	0	0	10	60	10	20	60	80
ISm-3	0.117	0.199	5.07	5.07	0.117	0.115	0.078	0.083	12.5	14.7	0	0	0	0	0	0	0	10
ISm-2	0.070	0.180	3.06	3.03	0.070	0.0686	0.047	0.061	7.52	9.15	0	0	0	0	0	0	0	0
ISm-1	0.042	0.136	1.82	1.89	0.042	0.0426	0.028	0.035	4.48	5.49	0	0	0	0	0	0	10	10
Control	0	0.080	0	<0.10	0	<0.0056	0	<0.0056	0	<1.0	0	0	0	0	0	0	0	0

^aInitial concentrations of un-ionized ammonia (mg/L as N) in test solutions for Rio Grande silvery minnow from highest to lowest mixture treatment: 0.975, 0.876, 0.767, 0.608, 0.496, 0.356, 0.277, 0.191, and 0.131.

^bInitial concentrations of un-ionized ammonia (mg/L as N) in test solutions for fathead minnow from highest to lowest mixture treatment: 0.918, 0.895, 0.744, 0.568, 0.478, 0.361, 0.271, 0.190, and 0.134.

^cMeasured concentrations in unfiltered water collected at test initiation.