TABLE 4-44

Summary Statistics for Contaminant Concentrations (mg/kg, dry weight) Measured in Terrestrial Plants

Lava Cap Mine, Nevada County, California

AREA	ANALYTE	DETECTS	N	MEAN	STD	MIN	MEDIAN	P90	MAX	UCL95
Reference 1	Aluminum	3	3	31.40	5.82	27.60	28.50	38.10	38.10	37.99
Reference 2	Aluminum	1	1	27.10	.	27.10	27.10	27.10	27.10	.
Mine	Aluminum	3	3	34.03	15.14	23.60	27.10	51.40	51.40	51.17
Midgradient	Aluminum	2	3	59.90	75.19	7.20	26.50	146.00	146.00	144.98
Lake	Aluminum	6	6	23.83	9.47	13.60	22.25	40.40	40.40	31.41
Downgradient	Aluminum	2	3	27.70	21.44	7.50	25.40	50.20	50.20	51.97
Reference 1	Antimony	3	3	0.04	0.01	0.04	0.04	0.05	0.05	0.05
Reference 2	Antimony	1	1	0.02	.	0.02	0.02	0.02	0.02	.
Mine	Antimony	3	3	0.08	0.09	0.03	0.03	0.18	0.18	0.18
Midgradient	Antimony	3	3	0.04	0.01	0.03	0.04	0.05	0.05	0.05
Lake	Antimony	6	6	0.04	0.01	0.03	0.04	0.05	0.05	0.04
Downgradient	Antimony	2	3	0.02	0.01	0.01	0.03	0.03	0.03	0.04
Reference 1	Arsenic	2	3	0.20	0.10	0.10	0.20	0.30	0.30	0.31
Reference 2	Arsenic	0	1	0.10	.	0.10	0.10	0.10	0.10	.
Mine	Arsenic	3	3	2.93	4.22	0.40	0.60	7.80	7.80	7.70
Midgradient	Arsenic	3	3	0.40	0.20	0.20	0.40	0.60	0.60	0.63
Lake	Arsenic	6	6	1.08	0.90	0.20	0.85	2.80	2.80	1.80
Downgradient	Arsenic	3	3	0.53	0.25	0.30	0.50	0.80	0.80	0.82
Reference 1	Barium	3	3	161.33	19.30	146.00	155.00	183.00	183.00	183.17
Reference 2	Barium	1	1	59.50	.	59.50	59.50	59.50	59.50	.
Mine	Barium	3	3	15.65	10.75	3.24	21.50	22.20	22.20	27.81
Midgradient	Barium	3	3	40.07	53.74	5.62	12.60	102.00	102.00	100.89
Lake	Barium	6	6	14.36	9.03	5.00	11.69	29.20	29.20	21.59
Downgradient	Barium	3	3	35.90	28.34	17.10	22.10	68.50	68.50	67.97
Reference 1	Beryllium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Reference 2	Beryllium	0	1	0.01	.	0.01	0.01	0.01	0.01	.
Mine	Beryllium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Midgradient	Beryllium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Lake	Beryllium	0	6	0.01	0.00	0.01	0.01	0.01	0.01	0.01

TABLE 4-44

Summary Statistics for Contaminant Concentrations (mg/kg, dry weight) Measured in Terrestrial Plants

Lava Cap Mine, Nevada County, California

AREA	ANALYTE	DETECTS	N	MEAN	STD	MIN	MEDIAN	P90	MAX	UCL95
Downgradient	Beryllium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Reference 1	Cadmium	3	3	0.04	0.01	0.04	0.04	0.05	0.05	0.05
Reference 2	Cadmium	1	1	0.70	.	0.70	0.70	0.70	0.70	.
Mine	Cadmium	3	3	3.42	4.11	0.87	1.23	8.17	8.17	8.08
Midgradient	Cadmium	3	3	4.24	4.13	1.03	2.79	8.90	8.90	8.91
Lake	Cadmium	6	6	8.20	7.39	1.24	6.88	18.10	18.10	14.12
Downgradient	Cadmium	3	3	0.73	0.61	0.04	1.00	1.16	1.16	1.42
Reference 1	Chromium	0	3	0.20	0.00	0.20	0.20	0.20	0.20	0.20
Reference 2	Chromium	1	1	0.50	.	0.50	0.50	0.50	0.50	.
Mine	Chromium	1	3	0.33	0.23	0.20	0.20	0.60	0.60	0.59
Midgradient	Chromium	2	3	0.97	1.16	0.20	0.40	2.30	2.30	2.28
Lake	Chromium	5	6	0.60	0.37	0.20	0.45	1.20	1.20	0.90
Downgradient	Chromium	2	3	0.43	0.21	0.20	0.50	0.60	0.60	0.67
Reference 1	Cobalt	3	3	0.07	0.03	0.05	0.07	0.10	0.10	0.10
Reference 2	Cobalt	1	1	0.94	.	0.94	0.94	0.94	0.94	.
Mine	Cobalt	3	3	0.55	0.46	0.13	0.48	1.04	1.04	1.07
Midgradient	Cobalt	3	3	0.58	0.22	0.34	0.64	0.76	0.76	0.83
Lake	Cobalt	6	6	0.54	0.33	0.24	0.36	1.04	1.04	0.81
Downgradient	Cobalt	3	3	0.76	0.83	0.06	0.53	1.68	1.68	1.70
Reference 1	Copper	3	3	4.14	0.13	3.99	4.19	4.23	4.23	4.28
Reference 2	Copper	1	1	10.60	.	10.60	10.60	10.60	10.60	.
Mine	Copper	3	3	6.02	2.71	2.92	7.19	7.95	7.95	9.09
Midgradient	Copper	3	3	9.32	4.94	4.67	8.80	14.50	14.50	14.91
Lake	Copper	6	6	9.26	0.79	8.37	9.30	10.40	10.40	9.90
Downgradient	Copper	3	3	6.79	3.22	3.57	6.79	10.00	10.00	10.43
Reference 1	Cyanide	0	3	0.15	0.00	0.15	0.15	0.15	0.15	0.15
Reference 2	Cyanide	0	1	0.15	.	0.15	0.15	0.15	0.15	.
Mine	Cyanide	1	3	0.20	0.09	0.15	0.15	0.30	0.30	0.30
Midgradient	Cyanide	0	3	0.15	0.00	0.15	0.15	0.15	0.15	0.15

TABLE 4-44

Summary Statistics for Contaminant Concentrations (mg/kg, dry weight) Measured in Terrestrial Plants

Lava Cap Mine, Nevada County, California

AREA	ANALYTE	DETECTS	N	MEAN	STD	MIN	MEDIAN	P90	MAX	UCL95
Lake	Cyanide	0	6	0.15	0.00	0.15	0.15	0.15	0.15	0.15
Downgradient	Cyanide	0	3	0.15	0.00	0.15	0.15	0.15	0.15	0.15
Reference 1	Iron	3	3	71.93	5.95	67.50	69.60	78.70	78.70	78.67
Reference 2	Iron	1	1	108.00	.	108.00	108.00	108.00	108.00	.
Mine	Iron	3	3	93.97	81.60	41.70	52.20	188.00	188.00	186.31
Midgradient	Iron	3	3	136.20	126.32	48.60	79.00	281.00	281.00	279.14
Lake	Iron	6	6	84.53	33.67	51.70	79.95	142.00	142.00	111.47
Downgradient	Iron	3	3	90.57	13.21	77.60	90.10	104.00	104.00	105.51
Reference 1	Lead	3	3	0.37	0.12	0.28	0.32	0.50	0.50	0.50
Reference 2	Lead	0	1	0.07	.	0.07	0.07	0.07	0.07	.
Mine	Lead	2	3	1.97	3.17	0.07	0.21	5.62	5.62	5.55
Midgradient	Lead	1	3	0.12	0.09	0.07	0.08	0.23	0.23	0.23
Lake	Lead	3	6	0.15	0.10	0.05	0.15	0.27	0.27	0.23
Downgradient	Lead	2	3	0.27	0.17	0.08	0.34	0.40	0.40	0.47
Reference 1	Magnesium	3	3	2490.00	348.28	2100.00	2600.00	2770.00	2770.00	2884.12
Reference 2	Magnesium	1	1	2010.00	.	2010.00	2010.00	2010.00	2010.00	.
Mine	Magnesium	3	3	2353.33	1592.87	1350.00	1520.00	4190.00	4190.00	4155.83
Midgradient	Magnesium	3	3	2283.33	887.94	1440.00	2200.00	3210.00	3210.00	3288.13
Lake	Magnesium	6	6	1888.33	244.74	1680.00	1825.00	2370.00	2370.00	2084.16
Downgradient	Magnesium	3	3	1690.00	363.73	1360.00	1630.00	2080.00	2080.00	2101.60
Reference 1	Manganese	3	3	145.07	70.48	97.20	112.00	226.00	226.00	224.82
Reference 2	Manganese	1	1	279.00	.	279.00	279.00	279.00	279.00	.
Mine	Manganese	3	3	169.10	110.93	65.30	156.00	286.00	286.00	294.63
Midgradient	Manganese	3	3	201.37	214.35	34.10	127.00	443.00	443.00	443.93
Lake	Manganese	6	6	522.87	457.83	37.20	367.50	1290.00	1290.00	889.20
Downgradient	Manganese	3	3	290.33	72.70	209.00	313.00	349.00	349.00	372.60
Reference 1	Mercury	3	3	0.05	0.00	0.05	0.05	0.05	0.05	0.05
Reference 2	Mercury	0	1	0.01	.	0.01	0.01	0.01	0.01	.
Mine	Mercury	2	3	0.03	0.02	0.01	0.02	0.05	0.05	0.05

TABLE 4-44

Summary Statistics for Contaminant Concentrations (mg/kg, dry weight) Measured in Terrestrial Plants

Lava Cap Mine, Nevada County, California

AREA	ANALYTE	DETECTS	N	MEAN	STD	MIN	MEDIAN	P90	MAX	UCL95
Midgradient	Mercury	1	3	0.02	0.02	0.01	0.01	0.04	0.04	0.04
Lake	Mercury	0	6	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Downgradient	Mercury	1	3	0.02	0.02	0.00	0.01	0.04	0.04	0.04
Reference 1	Nickel	3	3	1.29	0.36	1.03	1.14	1.70	1.70	1.70
Reference 2	Nickel	1	1	3.02	.	3.02	3.02	3.02	3.02	.
Mine	Nickel	3	3	1.69	1.06	0.97	1.19	2.91	2.91	2.89
Midgradient	Nickel	3	3	3.19	1.76	1.36	3.33	4.88	4.88	5.19
Lake	Nickel	6	6	1.33	0.36	0.90	1.29	1.92	1.92	1.61
Downgradient	Nickel	3	3	1.01	0.41	0.75	0.79	1.48	1.48	1.47
Reference 1	Selenium	0	3	0.50	0.00	0.50	0.50	0.50	0.50	0.50
Reference 2	Selenium	0	1	0.50	.	0.50	0.50	0.50	0.50	.
Mine	Selenium	0	3	0.50	0.00	0.50	0.50	0.50	0.50	0.50
Midgradient	Selenium	0	3	0.50	0.00	0.50	0.50	0.50	0.50	0.50
Lake	Selenium	0	6	0.50	0.00	0.50	0.50	0.50	0.50	0.50
Downgradient	Selenium	0	3	0.50	0.00	0.50	0.50	0.50	0.50	0.50
Reference 1	Silver	1	3	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Reference 2	Silver	0	1	0.01	.	0.01	0.01	0.01	0.01	.
Mine	Silver	2	3	0.09	0.09	0.01	0.08	0.19	0.19	0.20
Midgradient	Silver	1	3	0.02	0.01	0.01	0.01	0.03	0.03	0.03
Lake	Silver	3	6	0.02	0.02	0.01	0.02	0.04	0.04	0.04
Downgradient	Silver	1	3	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Reference 1	Thallium	3	3	0.03	0.01	0.02	0.02	0.04	0.04	0.04
Reference 2	Thallium	1	1	0.01	.	0.01	0.01	0.01	0.01	.
Mine	Thallium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Midgradient	Thallium	0	3	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Lake	Thallium	0	6	0.01	0.00	0.01	0.01	0.01	0.01	0.01
Downgradient	Thallium	1	3	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Reference 1	Vanadium	3	3	0.26	0.05	0.22	0.25	0.31	0.31	0.31
Reference 2	Vanadium	1	1	0.21	.	0.21	0.21	0.21	0.21	.

TABLE 4-44

Summary Statistics for Contaminant Concentrations (mg/kg, dry weight) Measured in Terrestrial Plants

Lava Cap Mine, Nevada County, California

AREA	ANALYTE	DETECTS	N	MEAN	STD	MIN	MEDIAN	P90	MAX	UCL95
Mine	Vanadium	3	3	0.26	0.05	0.20	0.28	0.29	0.29	0.31
Midgradient	Vanadium	3	3	0.27	0.19	0.15	0.16	0.49	0.49	0.49
Lake	Vanadium	6	6	0.21	0.04	0.16	0.21	0.26	0.26	0.25
Downgradient	Vanadium	3	3	0.23	0.09	0.13	0.26	0.29	0.29	0.32
Reference 1	Zinc	3	3	17.77	1.44	16.70	17.20	19.40	19.40	19.39
Reference 2	Zinc	1	1	125.00	.	125.00	125.00	125.00	125.00	.
Mine	Zinc	3	3	479.33	223.27	232.00	540.00	666.00	666.00	731.99
Midgradient	Zinc	3	3	159.00	82.61	104.00	119.00	254.00	254.00	252.49
Lake	Zinc	6	6	312.50	129.00	183.00	291.50	514.00	514.00	415.72
Downgradient	Zinc	3	3	108.87	72.61	25.60	142.00	159.00	159.00	191.03

Mine = Lava Cap Mine and adjacent affected areas upstream of the log dam

Midgradient = area that extends from below the log dam to the start of the Deposition Area upstream of Lost Lake

Lake = Deposition Area and property surrounding Lost Lake

Downgradient = area that extends from below Lost Lake dam to confluence of Clipper Creek with Little Greenhorn Creek

Reference 1 = Little Clipper Creek upgradient of the mine

Reference 2 = Clipper Creek upstream of the confluence with Little Clipper Creek

N = number of samples

STD = standard deviation

Min = minimum concentration

P90 = 90th percentile

Max = maximum concentration

UCL95 = 95% upper confidence limit