

TABLE 1.
CLEANUP GOALS FOR METALS IN SOIL
NAPA COUNTY/ATLAS FIRE INCIDENT
KL GEOLOGIC AREA

Metal	Background	US EPA RSL ^(a)	CalEPA CHHSL ^(b)	DTSC HERO ^(c)	Cleanup Goal
Antimony	0.63	31	30	-	30
Arsenic	9.3	0.7	0.1	0.07	9.3
Barium	328	15,000	5,200	-	5,200
Beryllium	0.52	160	16	15	15
Cadmium	0.188	71	1.7	5.2	1.7
Chromium	124	120,000	100,000	36,000	36,000
Cobalt	33.7	23	660	-	33.7
Copper	44.93	3,100	3,000	-	3,000
Lead	26.9	400	80	80	80
Mercury	0.091	5.1	18	23	5.1
Molybdenum	0.77	390	380	-	380
Nickel	496	1,500	1,600	490	490
Selenium	2.21	390	380	-	380
Silver	N/A	390	380	390	380
Thallium	N/A	0.8	5	-	5
Vanadium	60.35	390	530	390	390
Zinc	81.48	23,000	23,000	-	23,000

Notes:

All results presented in milligrams per kilogram (mg/kg)

Cleanup goal selected using the higher value of background or appropriate health-based screening level

Complete statistical summary information is presented as Attachment 1

NA Statistics not conducted due to minimal detections

-- None listed

a U.S. Environmental Protection Agency, Risk-Based Screening Levels
(www.epa.gov/Region9/superfund/prg). May 2016.

b California Environmental Protection Agency, Revised California Human Health Screening
Levels for Lead (<http://oehha.ca.gov.risk/pdf/LeadCHHSL091709.pdf>). September 2010.

c California Department of Toxic Substances Control, Office of Human Health and Ecological
Risk Assessment, Note 3 (www.dtsc.ca.gov/AssessingRisk.upload/HHRA-Note-3-2016-01.pdf).
January 2016.

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UM GEOLOGIC AREA

Metal	Background	US EPA RSL ^(a)	CalEPA CHHSL ^(b)	DTSC HERO ^(c)	Cleanup Goal
Antimony	0.43	31	30	-	30
Arsenic	5.2	0.7	0.1	0.07	5.2
Barium	159	15,000	5,200	-	5,200
Beryllium	0.368	160	16	15	15
Cadmium	N/A	71	1.7	5.2	1.7
Chromium	1690	120,000	100,000	36,000	36,000
Cobalt	136	23	660	-	136
Copper	33.8	3,100	3,000	-	3,000
Lead	14.45	400	80	80	80
Mercury	0.149	5.1	18	23	5.1
Molybdenum	0.69	390	380	-	380
Nickel	2240	1,500	1,600	490	2,240
Selenium	1.8	390	380	-	380
Silver	N/A	390	380	390	380
Thallium	N/A	0.8	5	-	5
Vanadium	95.5	390	530	390	390
Zinc	90.8	23,000	23,000	-	23,000

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Metal	Background	US EPA RSL ^(a)	CalEPA CHHSL ^(b)	DTSC HERO ^(c)	Cleanup Goal
Antimony	0.89	31	30	-	30
Arsenic	6.771	0.7	0.1	0.07	6.8
Barium	214.7	15,000	5,200	-	5,200
Beryllium	0.962	160	16	15	15
Cadmium	0.43	71	1.7	5.2	1.7
Chromium	75.3	120,000	100,000	36,000	36,000
Cobalt	15.86	23	660	-	23
Copper	18.84	3,100	3,000	-	3,000
Lead	43.41	400	80	80	80
Mercury	0.2	5.1	18	23	5.1
Molybdenum	0.79	390	380	-	380
Nickel	26.16	1,500	1,600	490	490
Selenium	3.6	390	380	-	380
Silver	N/A	390	380	390	380
Thallium	0.308	0.8	5	-	5
Vanadium	60.7	390	530	390	390
Zinc	58.17	23,000	23,000	-	23,000

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January 2016.

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NAPA COUNTY/ATLAS FIRE INCIDENT
QLS GEOLOGIC AREA**

Metal	Background	US EPA RSL ^(a)	CalEPA CHHSL ^(b)	DTSC HERO ^(c)	Cleanup Goal
Antimony	0.626	31	30	-	30
Arsenic	7.062	0.7	0.1	0.07	7.1
Barium	351	15,000	5,200	-	5,200
Beryllium	0.733	160	16	15	15
Cadmium	0.246	71	1.7	5.2	1.7
Chromium	29.8	120,000	100,000	36,000	36,000
Cobalt	19.48	23	660	-	23
Copper	30.9	3,100	3,000	-	3,000
Lead	22.22	400	80	80	80
Mercury	0.0684	5.1	18	23	5.1
Molybdenum	0.666	390	380	-	380
Nickel	41.9	1,500	1,600	490	490
Selenium	2.4	390	380	-	380
Silver	N/A	390	380	390	380
Thallium	0.193	0.8	5	-	5
Vanadium	108.3	390	530	390	390
Zinc	66.88	23,000	23,000	-	23,000

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