

Table 1. Summary of Analytical Results^{1,2}

Roba Westfall Mine, Malheur National Forest - Grant County, Oregon

Sample I.D.	Area	Antimony ³	Arsenic ^{4,5}	Beryllium ⁵	Cadmium ⁴	Chromium	Copper	Lead ⁵	Mercury ⁵	Nickel	Selenium ⁵	Silver ^{3,5}	Thallium ^{4,5}	Zinc ⁵	pH	Solids
		----- mg/kg -----														std. units.
RW-S1	Soil 6' North of Foundation	ND	8.1	ND	1.3	24	69	9	910	28	4.6	0.7	0.28	129	6.0	91.2
RW-S2	Soil 30' North of Foundation	ND	4.2	ND	0.6	24	71	6	17	24	0.7	0.8	0.17	92	5.7	88.1
RW-S3	Soil 6' South of Foundation	0.2	16.4	ND	1.0	23	73	38	2,140	25	2.7	1.2	0.49	221	7.3	86.1
RW-S4	Background	ND	13.6	ND	0.5	17	75	9	3,600	20	33	1.2	0.13	82	6.2	88.8
RW-S5	Background	ND	3.3	ND	1.1	14	41	5	22	24	0.8	0.8	0.19	152	6.0	84.2
RW-S6	Background	ND	3.8	0.2	0.8	25	54	5	1	30	0.3	0.9	0.20	120	6.1	87.9
RW-S7	Duplicate of RW-S1	ND	5.9	ND	1.1	24	65	9	980	22	2.6	0.9	0.14	126	5.9	91.3
RW-S8	Soil Downslope of Burnt Ore	0.3	19.4	ND	1.0	21	51	5	54	20	1.1	1.0	0.90	107	6.1	86.5
RW-WS1	Mine Waste Near Former Shaft	ND	3.1	ND	0.6	17	71	7	5,500	19	19	0.8	0.16	82	6.1	85.4
RW-WS2	Burnt Ore	2.5	94.5	ND	3.2	84	145	62	660	20	1.2	2.5	7.66	476	5.8	83.3
RW-WS3	Material 20' North of Foundation	0.2	4.0	ND	0.4	22	79	ND	26	22	0.7	0.7	0.15	88	6.8	90.7
RW-WS4	Duplicate of RW-WS2	12	90.4	ND	2.4	63	128	62	730	19	1.5	4.2	6.86	375	5.8	85.3
RW#1	Burnt Ore	NA	NA	NA	NA	NA	NA	NA	625	NA	NA	NA	NA	NA	NA	NA
RW#2	Burnt Ore	NA	NA	NA	NA	NA	NA	NA	886	NA	NA	NA	NA	NA	NA	NA
RW#3	Inside of Foundation	NA	NA	NA	NA	NA	NA	NA	4.1	NA	NA	NA	NA	NA	NA	NA
RW#4	Hillside NE of Foundation	NA	NA	NA	NA	NA	NA	NA	54.1	NA	NA	NA	NA	NA	NA	NA
MDL		0.1	0.5 - 0.6	0.2 - 0.5	0.1	1	1	4 - 9	0.2 - 200	1	0.1 - 1	0.5 - 0.6	0.05 - 0.06	1 - 2	0.1	0.1
PRG Industrial		820	2.7	2,200	810	450	76,000	750	610	41,000	10,000	10,000	130	100,000	NL	NL
TCLP (mg/l)		1.15	5.0	1.22	0.11	0.6	NL	0.75	0.2	11	5.7	0.14	0.2	4.3	NL	NL

NOTES:

¹Samples labeled "RW" were collected on October 24, 2000 by CES. Analyses were conducted by ACZ Laboratories, Inc. in Steamboat Springs, Colorado.

²Samples labeled RW#1 to RW#4 were collected on August 5, 1996 by USFS. Analyses were conducted by Alchem Laboratories in Boise, Idaho.

³Antimony and silver values are estimated. See laboratory report for case narrative.

⁴Some antimony, cadmium, and thallium values are estimated. See laboratory report for case narrative.

⁵Some MDLs are reported as a range due to higher detection limits for samples with high concentrations of metals.

MDL = method detection limit.

NA = not analyzed.

ND = none detected above laboratory method detection limit.

NL = not listed.

PRG = Soil Preliminary Remediation Goals - USEPA Region 9 (November, 2000).

TCLP = Toxicity Characteristic Leaching Procedure levels for metals in non-wastewater (40 CFR 268.28, 2000).