TABLES

This is a draft report and is not intended to be a final representation of the work done or recommendations made by Brown and Caldwell. It should not be relied upon, please consult the final report.

Table 1 - Waste Rock Analytical Results						
Parameter	Sample Test Results			Background		
	S-32 WRA (T-2)	S-32 WRA (T-11)	W-3 WRA (T-4)	Yerington Area (Shacklette and Boerngen, 1984)	US Soils (Rose, et al., 1979)	BK-1 (EPA, 2,000)
Aluminum	6,300	6,600	12,000	70,000	n/a	5,300
Antimony	<20	<20	<20	n/a	2	n/a
Arsenic	10	36	10	16 - 100	7.5	n/a
Barium	90	40	60	700	300	n/a
Beryllium	0.5	0.4	0.6	<1	0.5-4	n/a
Cadmium	<1	<1	<1	n/a	0.1-0.5	0.47
Calcium	1,800	3,900	8,900	18,000-28,000	n/a	n/a
Chromium	7	8	6	30	43	n/a
Cobalt	26	23	17	15 - 70	10	2.8
Copper	5,600	6,700	4,300	50 - 700	15	42
Iron	30,000	30,000	11,000	30,000	n/a	5,300
Lead	4	5	10	30 - 700	17	2.4
Magnesium	3,800	4,400	7,000	15,000-100,000	n/a	2,500
Manganese	100	100	90	700	320	140
Mercury	0.34	0.19	1.30	0.082-0.13	0.056	n/d
Nickel	1	20	10	15	17	6.3
Potassium	1,000	1,000	2,000	25,000-65,000	n/a	n/d
Selenium	17	24	2	0.15-0.2	0.31	n/a
Silver	<2	<2	<2	n/a	n/a	n/a
Sodium	50	50	80	15,000-100,000	n/a	n/a
Thallium	<100	<100	<100	n/a	n/a	n/a
Vanadium	35	35	30	150-500	n/a	n/a
Zinc	17	16	24	190-3,500	36	n/a

Notes:
All values in mg/kg = ppm
n/a = value not available or note measured
Chromium as total Cr
n/d = not detected

Table 2 - Summary of Sample Collection and Analyses

Analysis	Methods	Number of Samples		
		South WRA	W-3 WRA	S-32 WRA
Geotechnical Analyses	ASTM D-422 ASTM D-2325/D-3152	9 surface 3 slope	5 surface 3 slope	4 surface 2 slope
Static Test/Acid-Base Accounting	Field & Laboratory for Overburdens & Minesoils [EPA 0001.0]			
Agricultural Parameters Testing	Nitrogen/Phosphorous/Potassium (NPK) [EPA 300.0, 365.3, 200.7 and SM 4500] Calcium/Magnesium/Sodium (Ca/Mg/Na) [EPA 200/6000] Sodium Absorption Ratio (SAR) [EPA 9081] Boron/Chlorine (B/Cl) [EPA 212.3 and EPA 300.0/SM 4500-Cl]			
Whole Rock Analysis	ICP/(OES, MS), Hg: AA Cold Vapor [EPA SW-846 (6010A, 6020, Hg: 7471 or 245.5)]			

Notes:
See Figures 4 & 5 for sample locations
Number of samples do not include subsurface materials collected from boreholes; this number is uncertain.
Number of samples for each waste rock area may change due to accessibility of side slopes.

Table 3 - Whole-Rock Analyte List				
Constituent (mg/L)	**Method**	**Method Designation**	**Detection Limit**	**Units**
Aluminum	ICP-OES	SW – 846 6010A	0.05	mg/kg
Antimony	ICP-MS	SW – 846 6020	1	mg/kg
Arsenic	ICP-MS	SW – 846 6020	1	mg/kg
Barium	ICP-MS	SW – 846 6020	1	mg/kg
Beryllium	ICP-OES	SW – 846 6010A	0.1	mg/kg
Boron	ICP-OES	SW – 846 6010A	0.05	mg/kg
Cadmium	ICP-MS	SW – 846 6020	1	mg/kg
Calcium	ICP-OES	SW – 846 6010A	0.1	mg/kg
Chromium	ICP-MS	SW – 846 6020	1	mg/kg
Cobalt	ICP-MS	SW – 846 6020	1	mg/kg
Copper	ICP-MS	SW – 846 6020	1	mg/kg
Iron	ICP-OES	SW – 846 6010A	0.05	mg/kg
Lead	ICP-MS	SW – 846 6020	1	mg/kg
Magnesium	ICP-OES	SW – 846 6010A	0.1	mg/kg
Manganese	ICP-MS	SW – 846 6020	1	mg/kg
Mercury	AA Cold Vapor	SW - 846 7471	0.05	mg/kg
Molybdenum	ICP-MS	SW – 846 6020	1	mg/kg
Nickel	ICP-MS	SW – 846 6020	1	mg/kg
Potassium	ICP-OES	SW – 846 6010A	0.5	mg/kg
Selenium	ICP-MS	SW – 846 6020	1	mg/kg
Silver	ICP-MS	SW – 846 6020	1	mg/kg
Sodium	ICP-OES	SW – 846 6010A	0.1	mg/kg
Thallium	ICP-MS	SW - 846 6020	1	mg/kg
Vanadium	ICP-MS	SW – 846 6020	1	mg/kg
Zinc	ICP-MS	SW – 846 6020	10	mg/kg

ICP: Inductively-Coupled Plasma

MS: Mass Spectroscopy

OES: Optical Emission Spectroscopy