Table 5.3 Sample Analytical Results Summary - Acid Generating Potential
Morning Star Mine
Mojave National Preserve, California

Location / Sample ID	Sample Date	Total CN mg/kg	WAD CN mg/kg	Neutralization Potential ppt	Total Sulfur [a] Acid Potential ppt	Total NP:AP Ratio ppt	Sulfur Sulfide [b] Acid Potential ppt	Sulfur Sulfide NP:AP Ratio ppt	Sulfur, HCl Extract wt%	Sulfur, HNO_3 Extract wt%	Sulfur, HW Extract [c] wt%	Sulfur, Residual wt%	Sulfur, Total wt%
Heap Leach Pad 1 - East HL1-E	Jul-02	7.0	1.5	12	0.94	13:1	<0.94	>13:1	nd	0.02	0.01	nd	0.03
Heap Leach Pad 1 - West HL1-W	Jul-02	3.4	1.4	39	5.3	7:1	4.7	8:1	0.02	0.13	0.01	0.01	0.17
Heap Leach Pad 2 - East HL2-E	Jul-02	2.9	1.3	35	5.6	6:1	5.0	7:1	0.01	0.15	nd	0.01	0.18
Heap Leach Pad 2 - West HL2-W	Jul-02	11.4	2.4	14	1.2	12:1	<0.94	>15:1	nd	0.02	0.02	nd	0.04
Waste Rock Pile - Northwest WRP-1	Jul-02	-	-	4	0.31	13:1	<0.31	>13:1	nd	nd	nd	nd	0.01
Waste Rock Pile - Northeast WRP-2	Jul-02	-	-	2	<0.31	>6:1	<0.31	>6:1	nd	nd	nd	nd	nd
Waste Rock Pile - East WRP-3	Jul-02	-	-	27	1.6	17:1	0.9	29:1	nd	0.03	0.02	nd	0.05
Detection Limits		>0.5	>0.5	<1					0.01	0.01	0.01	0.01	0.01
Screening Limits						>3:1		>3:1					

Total CN / WAD CN Total Cyanide / Weak Acid Dissociable Cyanide
mg/kg milligrams per kilogram (equivalent to parts per million)
ppt parts per thousand
wt% percent of total weight
nd Not detected.
- not analyzed.
[a] Total Sulfur % * 31.25.
[b] Based upon HCL + HNO_3 extractable sulfur. (%extractable sulfur * 31.25)
[c] HW Extractable - Hot Water Extractable