CRICKET MOUNTAIN PROJECT
Reclamation Cost Summary

DIRECT BOND COSTS

RECLAMATION TASK	COST	
TOTAL EARTHWORK	$72,522	
TOTAL TOPSOIL REAPPLICATION	$120,835	
TOTAL REVEGETATION	$32,729	
STRUCTURE REMOVAL	$20,725	
POND LINER DISPOSAL		
CLAY CAPPING HEAP		
POSTCLOSURE MONITORING	$62,250	
HEAP STABILIZATION METHOD		(1=RINSE,2=SULF/AIR,3=CHLOR,4=HPx.)
HEAP STABILIZATION		(M1-RINSE,AC1-SULF,AS1-Cl,BI1-HPx)
SUBTOTAL DIRECT COSTS	**$309,061**	

BOND REDUCTION FOR WORK COMPLETED

RECLAMATION TASK	COST
DUMP EARTHWORK	
HEAP EARTHWORK	
ROAD EARTHWORK	
FACILITIES EARTHWORK	
DUMP RESEEDING	
HEAP RESEEDING	
ROAD RESEEDING	
FACILITIES RESEEDING	
STRUCTURE REMOVAL	
SEDIMENT/LINER REMOVAL	
HEAP STABILIZATION	
SUBTOTAL WORK COMPLETE	

TOTAL DIRECT COSTS **$309,061**

INDIRECT RECLAMATION COSTS (AS FUNCTION OF DIRECT COSTS)

RECLAMATION TASK	COST	% OF DIRECT COSTS
MOBILIZATION	$15,453	*5.0%*
SUBTOTAL PROJECT COSTS	**$324,514**	

INDIRECT RECLAMATION COSTS (AS FUNCTION OF PROJECT COSTS)

RECLAMATION TASK	COST	% OF PROJECT COSTS	
INSURANCE	$1,298	*1.5%*	(of Labor Costs)
RECLAMATION MGMT FEE	$64,903	*20.0%*	
BOND (PERFORMANCE AND PAYME	$9,735	*3.0%*	
PROFIT	$32,451	*10.0%*	
TOTAL INDIRECT COST	**$123,841**		

GRAND TOTAL BOND AMOUNT **$432,902** **APPROXIMATE COST/ACRE: $2,005**

CRICKET MOUNTAIN PROJECT
Reclamation Cost Summary

EARTHWORK AND REVEGETATION SUMMARY

Facility Type	Reclaimed Acreage	Earthwork	Topsoil Reapplication	Seed/Amend Costs	Seed/Amend Application	Total
Waste Rock Dumps	180.3	$60,708	$96,070	$9,627	$7,207	$173,612
Heap Leach Pads						
Tailings Impoundments						
Open Pit Area		$5,204				$5,204
Ponds and Process Impoundments						
Roads	18.6	$6,075	$13,355	$3,662	$7,011	$30,103
Office/Maintenance/Misc.	17.0	$534	$11,411	$1,792	$3,430	$17,167
	215.9	$72,522	$120,835	$15,081	$17,648	$226,086

CRICKET MOUNTAIN PROJECT

Reclamation Rates

EQUIPMENT - DATA RANGE	FACILITIES	HEAPS	ROADS	PONDS	DUMPS	PITS	
MOTOR GRADER							
MAKE/MODEL	CAT/16G	CAT/16G	CAT/16G	CAT/16G	CAT/16G	CAT/16G	
BLADE WIDTH	16	16	16	16	16	16	ft
COST	$107.50	$107.50	$107.50	$107.50	$107.50	$107.50	per hr
AVERAGE SPEED	0	0	0	0	0	0	mph
MANEUVER TIME	0.30	0.30	0.30	0.30	0.30	0.30	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
AVERAGE PASS DIST	500	500	500	500	500	500	ft
CORRECTION FACTORS	0.5	0.5	0.5	0.5	0.5	0.5	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
DOZER							
MAKE/MODEL	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	CAT/D9N	
HORSEPOWER	370	370	370	370	370	370	hp
BLADE WIDTH	15.3	15.3	15.3	15.3	15.3	15.3	ft
RIPPER WIDTH	8.8	8.8	8.8	8.8	8.8	8.8	ft
COST	$85.20	$85.20	$85.20	$85.20	$85.20	$85.20	per hr
AVERAGE SPEED	6	1	1	1	1	1	mph
MANEUVER TIME	0.30	0.30	0.30	0.30	0.30	0.30	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
AVG PASS DIST -DOZING	300	100	300	100	200	100	ft
CORRECTION FACTORS	0.75	0.75	0.75	0.75	0.75	0.75	
DATA SOURCE	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	
WHEEL LOADER							
MAKE/MODEL	CAT/988	CAT/988	CAT/988	CAT/988	CAT/988	CAT/988	
CAPACITY	7	7	7	7	7	7	cy
SPEED 2ND GEAR	10	10	10	10	10	10	mph
COST	$122.50	$122.50	$122.50	$122.50	$122.50	$122.50	per hr
MANEUVER TIME	0.30	0.30	0.30	0.30	0.30	0.30	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
CORRECTION FACTORS	0.75	0.75	0.75	0.75	0.75	0.75	
DATASOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
SCRAPER							
MAKE/MODEL	CAT/631E	CAT/631E	CAT/631E	CAT/631E	CAT/631E	CAT/631E	
CAPACITY	31	31	31	31	31	31	cy
AVERAGE SPEED	25	25	25	25	25	25	mph
UNIT COST	$101.60	$101.60	$101.60	$101.60	$101.60	$101.60	per hr
MANEUVER TIME	0.30	0.30	0.30	0.30	0.30	0.30	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
CORRECTION FACTORS	1.00	1.00	1.00	1.00	1.00	1.00	
NUMBER OF SCRAPERS	3	3	3	3	3	3	
DATA SOURCE	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	CAT 1997 - mo	
TRUCK							
MAKE/MODEL	CAT/769C	CAT/769C	CAT/769C	CAT/769C	CAT/769C	CAT/769C	
CAPACITY	17	17	17	17	17	17	cy
HAUL SPEED	15	15	15	15	15	15	mph
UNIT COST	$85.00	$85.00	$85.00	$85.00	$85.00	$85.00	per hr
MANEUVER TIME	0.30	0.30	0.30	0.30	0.30	0.30	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
NUMBER OF TRUCKS	2	2	2	2	2	2	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	
EXCAVATOR							
MAKE/MODEL	CAT/235	CAT/235	CAT/235	CAT/235	CAT/235	CAT/235	
CAPACITY	2.25	2.25	2.25	2.25	2.25	2.25	cy
UNIT COST	$106.25	$106.25	$106.25	$106.25	$106.25	$106.25	per hr
CYCLE TIME	0.33	0.33	0.33	0.33	0.33	0.33	min/cycle
EFFICIENCY	80	80	80	80	80	80	%
TRAVEL/SPREAD TIME	0.66	0.66	0.66	0.66	0.66	0.66	min/cycle
CORRECTION FACTORS	0.50	0.50	0.50	0.50	0.50	0.50	
DATA SOURCE	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	CAT 1997 - wk	

CRICKET MOUNTAIN PROJECT
Reclamation Rates

LABOR RATES - DATA RANGE							
	FACILITIES	HEAPS	ROADS	PONDS	DUMPS	PITS	
LABOR RATES							
GENERAL LABOR	*$13.46*	*$13.46*	*$13.46*	*$13.46*	*$13.46*	*$13.46*	per hr
DOZER OPERATOR	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
MOTOR GRADER OPERAT	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
WHEEL LOADER OPERAT	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
TRUCK DRIVER	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	*$23.87*	per hr
SCRAPER OPERATOR	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
EXCAVATOR OPERATOR	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	*$24.09*	per hr
DATA SOURCE	*1996 Davis-Bacon Wage Rates (UT960011)*						

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED AND AMENDMENT SUMMARY COSTS			
	Seed	Amendment	Total
Seed Mix #1	$54	$143	$197
Seed Mix #2			
Seed Mix #3			
Seed Mix #4			
Seed Mix #5			
Seed Mix #6			
Seed Mix #7			
Seed Mix #8			

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED AND AMENDMENT
SEED MIX #1

AREAS USING SEED MIX #1: *All*

SEED TYPE	APPL. lbs/acre	PLS pls/sq ft	COST $/lb	COST $/acre
Hycrest Crested Wheat	*1.44*	4.4	$0.95	$1.37
Luna Pubescent Wheat	*2.88*		$1.54	$4.44
Bozoisky Russian Wildrye	*2.88*		$8.15	$23.47
Kochia prostrata	*0.48*	2.5	$16.90	$8.11
Yellow Sweet Clover	*1.44*	7.4	$0.45	$0.65
Shadscale Saltbush	*1.44*	7.4	$5.50	$7.92
Four-wing Saltbush	*1.44*		$5.50	$7.92
TOTAL	**12.00**	**22**	**38.99**	**53.88**

AMENDMENT TYPE	APPL. lbs/acre	COST $/lb	COST $/acre
Ammonium Nitrate	*100.00*	$0.10	$10.00
Single Super Phosphate	*100.00*	$0.13	$13.00
Straw Mulch	*4000.00*	$0.03	$120.00

MIX #1 SEED COST	**$54**	/acre
MIX #1 AMENDMENT COST	**$143**	/acre

Notes:

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

SEED APPLICATION AND INCORPORATION COSTS

	COST/ACRE
Broad/Harrow	*46.93*
Drill	*526*
Hydroseeding	*500*
Harrowing	
Chain Harrowing	*25*
Ripping	
Discing	*75*

Source:

CRICKET MOUNTAIN PROJECT
Seed Mix Specification

AMENDMENT APPLICATION AND INCORPORATION COSTS

	COST/ACRE
Amendments	
Spreader	*30*
Hydromulching	
Mulch	
Hand/Crimp	*30*
Hand	*21*
Alfalfa Pellets	*300*

Source: R4-USFS

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

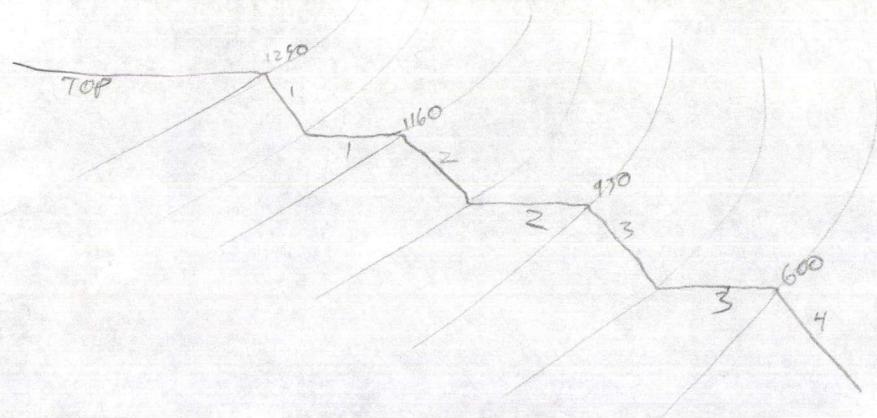
	Dump #1	Dump #2	Dump #3	Dump #4	Dump #5	Dump #6	Total
LEVEL AREA TO BE RECLAIMED (Acres)	23.3	12.7	7.8	6.2	24.3	38.6	112.9
SLOPE AREA TO BE RECLAIMED (Acres)	6.0	18.5	3.1	2.3	21.4	16.1	67.4
SLOPE REGRADING					$2,738	$5,770	$8,507
LEVEL AREA GRADING	$7,744	$4,232	$2,596	$2,061	$8,082	$12,848	$37,564
RIPPING SUBSOIL	$3,043	$1,647	$1,014	$818	$3,152	$4,963	$14,637
TOPSOIL REAPP - Level Areas	$11,163	$8,143	$3,762	$3,464	$11,742	$37,001	$75,274
TOPSOIL REAPP - Slopes (Truck/Load)							
TOPSOIL REAPP - Slopes (Scraper)	$2,853		$1,488	$1,116	$6,408	$8,930	$20,795
SEED AND AMENDMENT COSTS - Level Ar	$4,587	$2,500	$1,536	$1,221	$4,794	$7,599	
SEED AND AMENDMENT COSTS - Slopes	$1,181		$610	$453	$4,213	$3,170	$9,627
SEED/AMEND APPLICATION COSTS - Leve	$2,477	$1,358	$811	$644	$2,580	$2,316	
SEED/AMEND APPLICATION COSTS - Slop	$642	$1,978	$331	$246	$2,288	$1,722	$7,207
TOTALS	$33,690	$19,858	$12,148	$10,023	$45,997	$84,319	$173,612

Total Acres to be Reclaimed: 180.3

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1: *West Quarry Area #1*

	Bench 1	Bench 2	Bench 3	Top	Total
Lift	*Bench 1*	*Bench 2*	*Bench 3*	*Top*	
Lift Height (feet)	*40*	*40*	*40*	*40*	
Bench Width (feet)	*25*	*25*	*25*	*760*	
Bench Area (acres)	0.3	0.5	0.7	21.8	23.3
Final Bench Width (feet)	25	25	25	760	
Final Bench Area (acres)	0.3	0.5	0.7	21.8	23.3
Crest Length (feet)	*600*	*930*	*1160*	*1250*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	66	66	66	66	
Existing Slope Area (acres)	0.9	1.4	1.8	1.9	6.0
Final Slope Angle (degrees)	*37*	*37*	*37*	*37*	
Final Slope Distance (feet)	66	66	66	66	
Final Slope Area (acres)	0.9	1.4	1.8	1.9	6.0
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*	*0.5*	*0.5*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	*1500*	*1500*	
Total Topsoil Required (cu yd)	968	1,533	2,017	19,118	23,63



CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Average Pass Length (feet)	200	200	200	200	
Travel Distance (feet)	2,562	4,271	5,979	186,198	
Number of Passes	13	21	30	931	
Total Hours at 80% Efficiency	0.9	1.5	2.1	66.5	71
Total Labor Cost	$21	$36	$50	$1,587	$1,695
Total Operating Cost	$77	$128	$179	$5,666	$6,049
TOTALS	$98	$164	$229	$7,253	$7,744

DUMP #1 Level Grading	$7,744

DUMP #1 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Average Pass Length (feet)	600	930	1160	1250	
Travel Distance (feet)	1,485	2,475	3,465	107,910	
Number of Passes	2	3	3	86	
Total Hours at 80% Efficiency	0.4	0.6	0.8	26.1	28
Total Labor Cost	$10	$14	$19	$623	$666
Total Operating Cost	$34	$51	$68	$2,224	$2,377
TOTALS	$44	$65	$87	$2,847	$3,043

DUMP #1 Ripping $3,043

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

.3 ACRE (.5FT DEEP)

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Volume to Move (cu yd)	242	403	565	17,585	
Hourly Production (LCY)	290	290	290	290	
Total Hours per Scraper at 80% Efficiency	0.3	0.6	0.8	25.3	27
Total Scraper Labor Cost	$22	$43	$58	$1,828	$1,951
Total Scraper Operating Cost	$91	$183	$244	$7,711	$8,230
Total Scraper Costs	**$113**	**$226**	**$302**	**$9,540**	**$10,181**
Total Dozer Hours at 80% Efficiency	0.1	0.2	0.27	8.43	9
Total Dozer Labor Costs	$2	$5	$6	$201	$21[illegible]
Total Dozer Operating Costs	$9	$17	$23	$718	$7[illegible]
Total Dozer Costs	**$11**	**$22**	**$29**	**$919**	**$982**
TOTALS	$124	$248	$331	$10,459	

DUMP #1 Topsoil Reappl - Level $11,163

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #1 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

0.9 ACRE

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	Total
Volume to Move (cu yd)	726	1,129	1,452	1,533	4,840
Hourly Production (LCY)	290	290	290	290	
Total Hours per Scraper at 80% Efficiency	1.0	1.6	2.1	2.2	6.9
Total Scraper Labor Cost	$72	$116	$152	$159	$499
Total Scraper Operating Cost	$305	$488	$640	$671	$2,103
Total Scraper Costs	$377	$603	$792	$830	$2,602
Total Dozer Hours at 80% Efficiency	0.3	0.5	0.7	0.7	2.3
Total Dozer Labor Costs	$8	$13	$17	$18	$5[illegible]
Total Dozer Operating Costs	$28	$45	$60	$62	$1[illegible]
Total Dozer Costs	$36	$58	$76	$80	$25[illegible]
TOTALS	$413	$661	$868	$910	

DUMP #1 Topsoil Reappl - Slopes $2,853

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3	Top	Total
Seed Mix - Tops	1	1	1	1	
Amendments - Tops	1	1	1	1	
Seed Mix - Slopes	1	1	1	1	
Amendments - Slopes	1	1	1	1	
Seed Costs - Tops	$16	$27	$38	$1,174	$1,255
Amendment Costs - Tops	$43	$72	$100	$3,117	$3,3[illegible]
Seed Costs - Slopes	$48	$75	$97	$102	$3[illegible]
Amendment Costs - Slopes	$129	$200	$257	$272	$858
TOTALS	$236	$374	$492	$4,666	

DUMP #1 Top Seed/Amendment	$4,587
DUMP #1 Slope Seed/Amendments	$1,181
DUMP #1 Seed/Amendment Total	$5,768

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops		$23	$33	$1,023	$1,079
Amendment Application Costs - Tops	$9	$15	$21	$654	$69[illegible]
Mulch Application Costs - Tops	$9	$15	$21	$654	$6[illegible]
Seed Application Costs - Slopes	$42	$66	$84	$89	$28[illegible]
Amendment Application Costs - Slopes	$27	$42	$54	$57	$180
Mulch Application Costs - Slopes	$27	$42	$54	$57	$180
TOTALS	$114	$203	$267	$2,534	

DUMP #1 Top Seeding/Mulching	$2,477
DUMP #1 Slope Seeding/Mulching	$642
DUMP #1 Seeding/Mulching Total	$3,119

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2: *West Quarry Area #2*

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Lift Name	*Bench 1*	*Bench 2*	*Bench 3*	*Bench 4*	*Bench 5*	*Top*	
Lift Height (feet)	*40*	*40*	*40*	*40*	*40*	*40*	
Bench Width (feet)	*25*	*25*	*25*	*25*	*25*	*118*	
Bench Area (acres)	0.4	0.9	1.3	1.4	1.5	7.2	12.7
Final Bench Width (feet)	25	25	25	25	25	118	
Final Bench Area (acres)	0.4	0.9	1.3	1.4	1.5	7.2	12.7
Crest Length (feet)	*750*	*1630*	*2180*	*2430*	*2560*	*2670*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	66	66	66	66	66	66	
Existing Slope Area (acres)	1.1	2.5	3.3	3.7	3.9	4	18.5
Final Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	
Final Slope Distance (feet)	66	66	66	66	66	66	
Final Slope Area (acres)	1.1	2.5	3.3	3.7	3.9	4	18.5
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)							
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*1375*	*1815*	*2090*	*2215*	*2280*	*2335*	
Total Topsoil Required (cu yd)	323	726	1,049	1,129	1,210	5,808	10,2

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Average Pass Length (feet)	200	200	200	200	200	200	
Travel Distance (feet)	3,416	7,687	11,104	11,958	12,812	61,496	
Number of Passes	17	38	56	60	64	307	
Total Hours at 80% Efficiency	1.2	2.7	4	4.3	4.6	22	39
Total Labor Cost	$29	$64	$95	$103	$110	$525	$926
Total Operating Cost	$102	$230	$341	$366	$392	$1,874	$3,306
TOTALS	$131	$294	$436	$469	$502	$2,400	$4,232

DUMP #2 Level Grading $4,232

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Average Pass Length (feet)	750	1630	2180	2430	2560	2670	
Travel Distance (feet)	1,980	4,455	6,435	6,930	7,425	35,640	
Number of Passes	3	3	3	3	3	13	
Total Hours at 80% Efficiency	0.5	1.1	1.5	1.7	1.8	8.5	15
Total Labor Cost	$12	$26	$36	$41	$43	$203	$360
Total Operating Cost	$43	$94	$128	$145	$153	$724	$1,287
TOTALS	$55	$120	$164	$185	$196	$927	$1,647

DUMP #2 Ripping $1,647

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #2 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Volume to Move (cu yd)	323	726	1,049	1,129	1,210	5,808	
Hourly Production (LCY)	320	240	225	210	210	210	
Total Hours per Scraper at 80% Efficiency	0.4	1.3	1.9	2.2	2.4	11.5	20
Total Scraper Labor Cost	$29	$94	$137	$159	$173	$831	$1,424
Total Scraper Operating Cost	$122	$396	$579	$671	$732	$3,505	$6,005
Total Scraper Costs	**$151**	**$490**	**$716**	**$830**	**$905**	**$4,336**	**$7,428**
Total Dozer Hours at 80% Efficiency	0.1	0.43	0.63	0.73	0.8	3.83	7
Total Dozer Labor Costs	$3	$10	$15	$17	$19	$91	$15[illegible]
Total Dozer Operating Costs	$11	$37	$54	$62	$68	$326	$5[illegible]
Total Dozer Costs	**$14**	**$47**	**$69**	**$80**	**$87**	**$418**	**$714**
TOTALS	$165	$537	$785	$909	$992	$4,754	

DUMP #2 Topsoil Reappl - Level	$8,143

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Tops	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Slopes	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Costs - Tops	$22	$48	$70	$75	$81	$388	$684
Amendment Costs - Tops	$57	$129	$186	$200	$215	$1,030	$1,8[illegible]
Seed Costs - Slopes	$59	$135	$178	$199	$210	$216	$9[illegible]
Amendment Costs - Slopes	$157	$358	$472	$529	$558	$572	$2,646
TOTALS	$295	$669	$906	$1,004	$1,063	$2,205	

DUMP #2 Top Seed/Amendment	$2,500
DUMP #2 Slope Seed/Amendments	$3,642
DUMP #2 Seed/Amendment Total	$6,143

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3	Bench 4	Bench 5	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops	$19	$42	$61	$66	$70	$338	$596
Amendment Application Costs - Tops	$12	$27	$39	$42	$45	$216	$38[illegible]
Mulch Application Costs - Tops	$12	$27	$39	$42	$45	$216	$3[illegible]
Seed Application Costs - Slopes	$52	$117	$155	$174	$183	$188	$868
Amendment Application Costs - Slopes	$33	$75	$99	$111	$117	$120	$555
Mulch Application Costs - Slopes	$33	$75	$99	$111	$117	$120	$555
TOTALS	$160	$364	$492	$545	$577	$1,198	

DUMP #2 Top Seeding/Mulching	$1,358
DUMP #2 Slope Seeding/Mulching	$1,978
DUMP #2 Seeding/Mulching Total	$3,336

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3: *West Quarry Area #3*

	Bench 1	Top	Total
Lift	*Bench 1*	*Top*	
Lift Height (feet)	*40*	*40*	
Bench Width (feet)	*25*	*275*	
Bench Area (acres)	0.5	7.3	7.8
Final Bench Width (feet)	25	275	
Final Bench Area (acres)	0.5	7.3	7.8
Crest Length (feet)	*900*	*1150*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	66	66	
Existing Slope Area (acres)	1.4	1.7	3.1
Final Slope Angle (degrees)	*37*	*37*	
Final Slope Distance (feet)	66	66	
Final Slope Area (acres)	1.4	1.7	3.1
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	1,533	7,260	8,79[illegible]

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	200	200	
Travel Distance (feet)	4,271	62,351	
Number of Passes	21	312	
Total Hours at 80% Efficiency	1.5	22.3	24
Total Labor Cost	$36	$532	$568
Total Operating Cost	$128	$1,900	$2,028
TOTALS	$164	$2,432	$2,596

DUMP #3 Level Grading	$2,596

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	900	1150	
Travel Distance (feet)	2,475	36,135	
Number of Passes	3	31	
Total Hours at 80% Efficiency	0.6	8.7	9
Total Labor Cost	$14	$208	$222
Total Operating Cost	$51	$741	$792
TOTALS	$65	$949	$1,014

DUMP #3 Ripping $1,014

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	403	5,889	
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	0.6	8.5	9
Total Scraper Labor Cost	$43	$614	$658
Total Scraper Operating Cost	$183	$2,591	$2,774
Total Scraper Costs	**$226**	**$3,205**	**$3,431**
Total Dozer Hours at 80% Efficiency	0.2	2.83	3
Total Dozer Labor Costs	$5	$68	$7[illegible]
Total Dozer Operating Costs	$17	$241	$25[illegible]
Total Dozer Costs	**$22**	**$309**	**$330**
TOTALS	$248	$3,514	

DUMP #3 Topsoil Reappl - Level	$3,762

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #3 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

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Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	1,129	1,371	2,500
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	1.6	2.0	3.6
Total Scraper Labor Cost	$116	$145	$260
Total Scraper Operating Cost	$488	$610	$1,097
Total Scraper Costs	$603	$754	$1,357
Total Dozer Hours at 80% Efficiency	0.5	0.7	1.2
Total Dozer Labor Costs	$13	$16	$29
Total Dozer Operating Costs	$45	$57	$10
Total Dozer Costs	$58	$73	$131
TOTALS	$661	$827	

DUMP #3 Topsoil Reappl - Slopes $1,488

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Top	Total
Seed Mix - Tops	*1*	*1*	
Amendments - Tops	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes	*1*	*1*	
Seed Costs - Tops	$27	$393	$420
Amendment Costs - Tops	$72	$1,044	$1,11[illegible]
Seed Costs - Slopes	$75	$92	$1[illegible]
Amendment Costs - Slopes	$200	$243	$443
TOTALS	$374	$1,772	

DUMP #3 Top Seed/Amendment	$1,536
DUMP #3 Slope Seed/Amendments	$610
DUMP #3 Seed/Amendment Total	$2,146

RESEEDING AND MULCHING COSTS

	Bench 1	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops		$343	$343
Amendment Application Costs - Tops	$15	$219	$234
Mulch Application Costs - Tops	$15	$219	$23[illegible]
Seed Application Costs - Slopes	$66	$80	$145
Amendment Application Costs - Slopes	$42	$51	$93
Mulch Application Costs - Slopes	$42	$51	$93
TOTALS	$180	$962	

DUMP #3 Top Seeding/Mulching	$811
DUMP #3 Slope Seeding/Mulching	$331
DUMP #3 Seeding/Mulching Total	$1,142

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4: *West Quarry Area #4*

	Bench 1	Top	Total
Lift	*Bench 1*	*Top*	
Lift Height (feet)	*40*	*40*	
Bench Width (feet)	*25*	*305*	
Bench Area (acres)	0.4	5.8	6.2
Final Bench Width (feet)	25	305	
Final Bench Area (acres)	0.4	5.8	6.2
Crest Length (feet)	*690*	*830*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	66	66	
Existing Slope Area (acres)	1	1.3	2.3
Final Slope Angle (degrees)	*37*	*37*	
Final Slope Distance (feet)	66	66	
Final Slope Area (acres)	1	1.3	2.3
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	1,129	5,727	6,85[illegible]

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	200	200	
Travel Distance (feet)	3,416	49,539	
Number of Passes	17	248	
Total Hours at 80% Efficiency	1.2	17.7	19
Total Labor Cost	$29	$422	$451
Total Operating Cost	$102	$1,508	$1,610
TOTALS	$131	$1,931	$2,061

DUMP #4 Level Grading	$2,061

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	807	1,049	1,856
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	1.2	1.5	2.7
Total Scraper Labor Cost	$87	$108	$195
Total Scraper Operating Cost	$366	$457	$823
Total Scraper Costs	$452	$566	$1,018
Total Dozer Hours at 80% Efficiency	0.4	0.5	0.9
Total Dozer Labor Costs	$10	$12	$2[illegible]
Total Dozer Operating Costs	$34	$43	$7
Total Dozer Costs	$44	$55	$98
TOTALS	$496	$620	

DUMP #4 Topsoil Reappl - Slopes $1,116

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Volume to Move (cu yd)	323	4,679	
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	0.5	6.7	7
Total Scraper Labor Cost	$36	$484	$520
Total Scraper Operating Cost	$152	$2,042	$2,195
Total Scraper Costs	**$189**	**$2,526**	**$2,715**
Total Dozer Hours at 80% Efficiency	0.2	6.7	7
Total Dozer Labor Costs	$4	$160	$164
Total Dozer Operating Costs	$14	$571	$58
Total Dozer Costs	**$19**	**$731**	**$749**
TOTALS	$207	$3,257	

DUMP #4 Topsoil Reappl - Level	$3,464

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #4 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Top	Total
Average Pass Length (feet)	690	830	
Travel Distance (feet)	1,980	28,710	
Number of Passes	3	35	
Total Hours at 80% Efficiency	0.5	7	8
Total Labor Cost	$12	$167	$179
Total Operating Cost	$43	$596	$639
TOTALS	$55	$763	$818

DUMP #4 Ripping	$818

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Top	Total
Seed Mix - Tops	*1*	*1*	
Amendments - Tops	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes	*1*	*1*	
Seed Costs - Tops	$22	$312	$334
Amendment Costs - Tops	$57	$829	$8[illegible]
Seed Costs - Slopes	$54	$70	$1.
Amendment Costs - Slopes	$143	$186	$329
TOTALS	$276	$1,398	

DUMP #4 Top Seed/Amendment	$1,221
DUMP #4 Slope Seed/Amendments	$453
DUMP #4 Seed/Amendment Total	$1,673

RESEEDING AND MULCHING COSTS

	Bench 1	Top	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops		$272	$272
Amendment Application Costs - Tops	$12	$174	$18[illegible]
Mulch Application Costs - Tops	$12	$174	$1
Seed Application Costs - Slopes	$47	$61	$10[illegible]
Amendment Application Costs - Slopes	$30	$39	$69
Mulch Application Costs - Slopes	$30	$39	$69
TOTALS	$131	$759	

DUMP #4 Top Seeding/Mulching	$644
DUMP #4 Slope Seeding/Mulching	$246
DUMP #4 Seeding/Mulching Total	$890

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5: *Poison Mtn. Undersize Material*

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Lift	*Bench 1*	*Bench 2*	*Bench 3*	*Top*	*B1 NE/NW*	*B2 NE/NW*	*B3 NE/NW*	*Top NE/NW*	
Lift Height (feet)	*40*	*40*	*40*	*40*	*40*	*40*	*40*	*40*	
Bench Width (feet)	*25*	*25*	*25*	*360*	*62*	*62*	*62*	*62*	
Bench Area (acres)	0.5	0.6	0.5	21.7	0.5	0.9	2.6	2.5	29.8
Final Bench Width (feet)	25	25	25	360	10	10	10	10	
Final Bench Area (acres)	0.5	0.6	0.5	21.7	0.1	0.1	0.4	0.4	24.3
Crest Length (feet)	*790*	*1040*	*830*	*2630*	*340*	*620*	*1860*	*1750*	
Existing Slope Angle (degrees)	*37*	*37*	*37*	*37*	*37*	*37*	*37*	*37*	
Existing Slope Distance (feet)	66	66	66	66	66	66	66	66	
Existing Slope Area (acres)	1.2	1.6	1.3	4	0.5	0.9	2.8	2.7	15.0
Final Slope Angle (degrees)	*37*	*37*	*37*	*37*	*18.4*	*18.4*	*18.4*	*18.4*	
Final Slope Distance (feet)	66	66	66	66	127	127	127	127	
Final Slope Area (acres)	1.2	1.6	1.3	4	1	1.8	5.4	5.1	21.4
Topsoil Depth - Tops (feet)	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	
Topsoil Depth - Slopes (feet)					*0.5*	*0.5*	*0.5*	*0.5*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*	*S*	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	*1500*	*1500*	*1500*	*1500*	*1500*	*1500*	
Total Topsoil Required (cu yd)	403	484	403	17,505	1,210	2,178	6,453	6,131	34,7[illegible]

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Slope Grading

Dozer Type	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Volume to Move (cu yd)					4,229	7,711	23,134	21,766	
Hourly Production (LCY/hr)					2835	2835	2835	2835	
Total Hours at 80% Efficiency					1.9	3.4	10.2	9.6	25.1
Total Labor Cost					$45	$81	$243	$229	$599
Total Operating Cost					$162	$290	$869	$818	$2,139
TOTALS					$207	$371	$1,113	$1,047	

DUMP #5 Slope Grading	$2,738

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Average Pass Length (feet)	200	200	200	200	200	200	200	200	
Travel Distance (feet)	4,271	5,125	4,271	185,344	667	1,216	3,647	3,431	
Number of Passes	21	26	21	927	3	6	18	17	
Total Hours at 80% Efficiency	1.5	1.8	1.5	66.2	0.2	0.4	1.3	1.2	74
Total Labor Cost	$36	$43	$36	$1,580	$5	$10	$31	$29	$1,769
Total Operating Cost	$128	$153	$128	$5,640	$17	$34	$111	$102	$6,313
TOTALS	$164	$196	$164	$7,220	$22	$44	$142	$131	$8,082

DUMP #5 Level Grading	$8,082

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Average Pass Length (feet)	790	1040	830	2630	340	620	1860	1750	
Travel Distance (feet)	2,475	2,970	2,475	107,415	386	705	2,114	1,989	
Number of Passes	3	3	3	41	1	1	1	1	
Total Hours at 80% Efficiency	0.6	0.7	0.6	25.7	0.1	0.2	0.5	0.5	29
Total Labor Cost	$14	$17	$14	$613	$2	$5	$12	$12	$690
Total Operating Cost	$51	$60	$51	$2,190	$9	$17	$43	$43	$2,462
TOTALS	$65	$76	$65	$2,803	$11	$22	$55	$55	$3,152

DUMP #5 Ripping $3,152

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Volume to Move (cu yd)	403	484	403	17,505	63	115	344	324	19,691
Hourly Production (LCY)	290	290	290	290	290	290	290	290	
Total Hours per Scraper at 80% Efficiency	0.6	0.7	0.6	25.2	0.1	0.2	0.5	0.5	28
Total Scraper Labor Cost	$43	$51	$43	$1,821	$7	$14	$36	$36	$2,052
Total Scraper Operating Cost	$183	$213	$183	$7,681	$30	$61	$152	$152	$8,656
Total Scraper Costs	**$226**	**$264**	**$226**	**$9,502**	**$38**	**$75**	**$189**	**$189**	**$10,709**
Total Dozer Hours at 80% Efficiency	0.2	0.23	0.2	8.4	0.03	0.07	0.17	0.17	9
Total Dozer Labor Costs	$5	$5	$5	$201	$1	$2	$4	$4	$226
Total Dozer Operating Costs	$17	$20	$17	$716	$3	$6	$14	$14	$80
Total Dozer Costs	**$22**	**$25**	**$22**	**$916**	**$3**	**$8**	**$19**	**$19**	**$1,033**
TOTALS	$248	$289	$248	$10,418	$41	$83	$207	$207	

DUMP #5 Topsoil Reappl - Level $11,742

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #5 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Volume to Move (cu yd)					807	1,452	4,356	4,114	10,729
Hourly Production (LCY)					290	290	290	290	
Total Hours per Scraper at 80% Efficiency					1.2	2.1	6.3	5.9	15.5
Total Scraper Labor Cost					$87	$152	$455	$426	$1,120
Total Scraper Operating Cost					$366	$640	$1,920	$1,798	$4,724
Total Scraper Costs					$452	$792	$2,376	$2,225	$5,845
Total Dozer Hours at 80% Efficiency					0.4	0.7	2.1	2.0	5.2
Total Dozer Labor Costs					$10	$17	$50	$47	$12[illegible]
Total Dozer Operating Costs					$34	$60	$179	$168	$4[illegible]
Total Dozer Costs					$44	$76	$229	$215	$564
TOTALS					$496	$868	$2,605	$2,439	

DUMP #5 Topsoil Reappl - Slopes $6,408

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Seed Mix - Tops	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Tops	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - Slopes	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Costs - Tops	$27	$32	$27	$1,169	$4	$8	$23	$22	$1,312
Amendment Costs - Tops	$72	$86	$72	$3,103	$11	$20	$61	$57	$3,48[illegible]
Seed Costs - Slopes	$65	$86	$70	$216	$54	$97	$291	$275	$1,1[illegible]
Amendment Costs - Slopes	$172	$229	$186	$572	$143	$257	$772	$729	$3,060
TOTALS	$335	$433	$354	$5,060	$212	$382	$1,147	$1,083	

DUMP #5 Top Seed/Amendment	$4,794
DUMP #5 Slope Seed/Amendments	$4,213
DUMP #5 Seed/Amendment Total	$9,007

RESEEDING AND MULCHING COSTS

	Bench 1	Bench 2	Bench 3	Top	B1 NE/NW	B2 NE/NW	B3 NE/NW	Top NE/NW	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops		$28	$23	$1,018	$4	$7	$20	$19	$1,119
Amendment Application Costs - Tops	$15	$18	$15	$651	$2	$4	$13	$12	$730
Mulch Application Costs - Tops	$15	$18	$15	$651	$2	$4	$13	$12	$7[illegible]
Seed Application Costs - Slopes	$56	$75	$61	$188	$47	$84	$253	$239	$1,004
Amendment Application Costs - Slopes	$36	$48	$39	$120	$30	$54	$162	$153	$642
Mulch Application Costs - Slopes	$36	$48	$39	$120	$30	$54	$162	$153	$642
TOTALS	$158	$235	$192	$2,748	$115	$208	$623	$588	

DUMP #5 Top Seeding/Mulching	$2,580
DUMP #5 Slope Seeding/Mulching	$2,288
DUMP #5 Seeding/Mulching Total	$4,868

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6: *BB Dolomite Undersize Material*

	Top	North Slope	Total
Lift	*Top*	*North Slope*	
Lift Height (feet)	*40*	*70*	
Bench Width (feet)	*375*	*60*	
Bench Area (acres)	38.6	2.5	41.1
Final Bench Width (feet)	375		
Final Bench Area (acres)	38.6		38.6
Crest Length (feet)	*4480*	*1830*	
Existing Slope Angle (degrees)	*37*	*37*	
Existing Slope Distance (feet)	66	116	
Existing Slope Area (acres)	6.8	4.9	11.7
Final Slope Angle (degrees)	*37*	*18.4*	
Final Slope Distance (feet)	66	222	
Final Slope Area (acres)	6.8	9.3	16.1
Topsoil Depth - Tops (feet)	*1*	*1*	
Topsoil Depth - Slopes (feet)		*1*	
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	
Topsoil Haul Distance (feet)	*1500*	*1500*	
Total Topsoil Required (cu yd)	62,275	19,037	81,31.

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Slope Grading

Dozer Type	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Top	North Slope	Total
Volume to Move (cu yd)		69,705	
Hourly Production (LCY/hr)		1,647	
Total Hours at 80% Efficiency		52.9	52.9
Total Labor Cost		$1,263	$1,263
Total Operating Cost		$4,507	$4,507
TOTALS		$5,770	

DUMP #6 Slope Grading	$5,770

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Level Area Grading

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	200
Number of Passes	3
Average Speed (mph)	1
Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Top	North Slope	Total
Average Pass Length (feet)	200	200	
Travel Distance (feet)	329,689		
Number of Passes	1648		
Total Hours at 80% Efficiency	117.8		118
Total Labor Cost	$2,812		$2,812
Total Operating Cost	$10,037		$10,037
TOTALS	$12,848		$12,848

DUMP #6 Level Grading	$12,848

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Subsoil Ripping

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Top	North Slope	Total
Average Pass Length (feet)	4480	1830	
Travel Distance (feet)	191,070		
Number of Passes	43		
Total Hours at 80% Efficiency	45.5		46
Total Labor Cost	$1,086		$1,086
Total Operating Cost	$3,877		$3,877
TOTALS	$4,963		$4,963

DUMP #6 Ripping $4,963

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Topsoil Reappl - Level

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Top	North Slope	Total
Volume to Move (cu yd)	62,275		
Hourly Production (LCY)	290	290	
Total Hours per Scraper at 80% Efficiency	89.5		90
Total Scraper Labor Cost	$6,468		$6,468
Total Scraper Operating Cost	$27,280		$27,280
Total Scraper Costs	**$33,748**		**$33,748**
Total Dozer Hours at 80% Efficiency	29.8		30
Total Dozer Labor Costs	$712		$71[illegible]
Total Dozer Operating Costs	$2,542		$2,5[illegible]
Total Dozer Costs	**$3,254**		**$3,254**
TOTALS	$37,001		

DUMP #6 Topsoil Reappl - Level	$37,001

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

DUMP #6 Topsoil Slopes (Scraper)

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	Top	North Slope	Total
Volume to Move (cu yd)		15,004	15,004
Hourly Production (LCY)		290	
Total Hours per Scraper at 80% Efficiency		21.6	21.6
Total Scraper Labor Cost		$1,561	$1,561
Total Scraper Operating Cost		$6,584	$6,584
Total Scraper Costs		$8,145	$8,145
Total Dozer Hours at 80% Efficiency		7.2	7.2
Total Dozer Labor Costs		$172	$17[illegible]
Total Dozer Operating Costs		$613	$6[illegible]
Total Dozer Costs		$785	$785
TOTALS		$8,930	

DUMP #6 Topsoil Reappl - Slopes $8,930

CRICKET MOUNTAIN PROJECT
Waste Rock Dump Reclamation

SEED AND AMENDMENT COSTS

	Top	North Slope	Total
Seed Mix - Tops	*1*	*1*	
Amendments - Tops	*1*	*1*	
Seed Mix - Slopes	*1*	*1*	
Amendments - Slopes	*1*	*1*	
Seed Costs - Tops	$2,080		$2,080
Amendment Costs - Tops	$5,520		$5,52[illegible]
Seed Costs - Slopes	$366	$501	$8[illegible]
Amendment Costs - Slopes	$972	$1,330	$2,302
TOTALS	$8,938	$1,831	

DUMP #6 Top Seed/Amendment	$7,599
DUMP #6 Slope Seed/Amendments	$3,170
DUMP #6 Seed/Amendment Total	$10,769

RESEEDING AND MULCHING COSTS

	Top	North Slope	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Tops	*Spreader*	*Spreader*	
Mulch Application Method - Tops	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application - Slopes	*Spreader*	*Spreader*	
Mulch Application Method - Slopes	*Hand/Crimp*	*Hand/Crimp*	
Seed Application Costs - Tops			
Amendment Application Costs - Tops	$1,158		$1,158
Mulch Application Costs - Tops	$1,158		$1,15[illegible]
Seed Application Costs - Slopes	$319	$436	$756
Amendment Application Costs - Slopes	$204	$279	$483
Mulch Application Costs - Slopes	$204	$279	$483
TOTALS	$3,043	$994	

DUMP #6 Top Seeding/Mulching	$2,316
DUMP #6 Slope Seeding/Mulching	$1,722
DUMP #6 Seeding/Mulching Total	$4,038

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

	BB Area	West Quarry	Total
RECONTOURING - Excavator			
RECONTOURING - Dozer	$1,232	$2,400	$3,632
RIPPING SUBSOIL	$851	$1,592	$2,443
TOPSOIL REAPPLICATION - LEVEL AREAS	$2,564	$4,796	$7,3[illegible]
TOPSOIL REAPPLICATION - SLOPES	$2,095	$3,900	$5,[illegible]
TOPSOIL GRADING - LEVEL AREAS			
TOPSOIL GRADING - SLOPES			
SEED AND AMENDMENT COSTS	$1,280	$2,382	$3,662
SEED & AMENDMENT APPLICATION COSTS	$2,450	$4,561	$7,011
TOTALS	$10,472	$19,631	$30,103

Total Acres to be Reclaimed: 19

	Road #1	Road #2	Road #3	Road #4	Road #5	Road #6	Road #7	Road #8	Road #9	Road #10	Total
Description	*BB Area*	*West Quarry*									
Road Width (feet)	*80*	*80*									
Average Slope Angle (degrees)	5	5									
Average Disturbed Width (feet)	90	50									
Road Length (feet)	3,158	10,563									13,7[illegible]
Disturbed Area (acres)	6.5	12.1									19[illegible]
Percent Replacement	*90*	*90*									
Recontour Method (D=Dozer, E=Excavator)	*D*	*D*									
Topsoil Depth - Tops (feet)	*0.5*	*0.5*									
Topsoil Depth - Slopes (feet)	*0.5*	*0.5*									
Topsoil Haul Distance (feet)	*1500*	*1500*									

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

RECONTOURING - Excavator

Excavator Type	CAT/235
Bucket Capacity (cu yd)	2.25
Cycle Time (min/load)	0.33
Travel/Spread Time (min/load)	0.66
Operating Cost ($/hr)	$106.25
Labor Cost ($/hr)	$24.09

	BB Area	West Quarry	Tc
Volume to Move (cu yd)			
Hourly Production (LCY/hr)			
Total Hours at 80% Efficiency			
Total Labor Cost			
Total Operating Cost			
TOTALS			

RECONTOURING - Excavator

RECONTOURING - Dozer

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	300
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Volume to Move (cu yd)	8,297	27,751	
Hourly Production (LCY/hr)	915	1,575	
Total Hours at 80% Efficiency	11.3	22	33
Total Labor Cost	$270	$525	$795
Total Operating Cost	$963	$1,874	$2,837
TOTALS	$1,232	$2,400	

RECONTOURING - Dozer $3,632

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

SUBSOIL RIPPING

Equipment	CAT/D9N
Ripper Width (feet)	8.8
Average Speed (mph)	1
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry						Total
Average Pass Length (feet)	*1000*	*1000*	*1000*	*1000*	*1000*	*1000*	*1000*	
Travel Distance (feet)	32,175	59,895						
Number of Passes	32	60						
Total Hours at 80% Efficiency	7.8	14.6						22
Total Labor Cost	$186	$349						$535
Total Operating Cost	$665	$1,244						$1,908
TOTALS	$851	$1,592						

SUBSOIL RIPPING $2,443

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

TOPSOIL REAPPLICATION - LEVEL AREAS

Scraper	CAT/631E
Number of Scapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Volume to Move (cu yd)	5,243	9,761	
Hourly Production (LCY)	350	350	
Total Hours per Scraper at 80% Efficiency	6.2	11.6	18
Total Scraper Labor Cost	$448	$838	$1,286
Total Scraper Operating Cost	$1,890	$3,536	$5,425
Total Scraper Costs	$2,338	$4,374	$6,712
Total Dozer Hours at 80% Efficiency	2.1	3.87	6
Total Dozer Labor Costs	$49	$92	$1[illegible]
Total Dozer Operating Costs	$176	$330	$[illegible]
Total Dozer Costs	$226	$422	$648
TOTALS	$2,564	$4,796	

TOPSOIL REAPPLICATION - LEVEL AREAS $7,360

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

TOPSOIL REAPPLICATION - SLOPES

Loader	CAT/988
Capacity (cu yd)	7
Average Speed (mph)	10
Load, Dump, Maneuver Time (min)	0.3
Buckets to Fill Truck	3
Loader Time/Truck Load	0.9
Operating Cost ($/hr)	$122.50
Labor Cost ($/hr)	$24.09

Truck	CAT/769C
Capacity (cu yd)	17
Average Speed (mph)	15
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.00
Labor Cost ($/hr)	$23.87

	BB Area	West Quarry	Total
Number of Truck Loads	309	575	
Truck Cycle Time	4	3.5	
Optimum Number of Trucks	4	4	
Total Hours per Truck at 80% Eff.	4	6.7	10
Total Loader Hrs at 80% Effiency	4	6.7	10
Total Loader Labor Cost	$87	161.403	248.127
Total Loader Operating Cost	$441	820.75	1261.7[illegible]
Total Loader Cost	**$528**	**982.153**	1509.[illegible]
Total Truck Labor Cost	$344	639.716	$98[illegible]
Total Truck Operating Cost	$1,224	2278	$3,502
Total Truck Cost	**$1,568**	**2917.716**	$4,485
TOTALS	$2,095	$3,900	

TOPSOIL REAPPLICATION - SLOPES $5,995

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

SEED AND AMENDMENT COSTS

	BB Area	West Quarry						Total
Seed Mix - All Areas	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Amendments - All Areas	*1*	*1*	*1*	*1*	*1*	*1*	*1*	
Seed Costs - Level Areas	$350	$652						$1,002
Amendment Costs - Level Areas	$930	$1,730						$2,660
TOTALS	$1,280	$2,382						$3,6

LEVEL AREA SEED AND AMENDMENT	$3,662
SLOPE SEED AND AMENDMENT	
SEED AND AMENDMENT TOTAL	$3,662

RESEEDING AND MULCHING COSTS

	BB Area	West Quarry						Total
Seed Application Method	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*	
Amendments Application	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	*Spreader*	
Mulch Application Method	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*	
Seed Application Costs	$305	$568						$8
Amendment Application Costs	$195	$363						$5
Mulch Application Costs	$1,950	$3,630						$5,580
TOTALS	$2,450	$4,561						$7,011

LEVEL AREA SEEDING/MULCHING COSTS	$7,011
SLOPE SEEDING/MULCHING COSTS	
SEEDING/MULCHING TOTAL	$7,011

CRICKET MOUNTAIN PROJECT
Road Reclamation Costs

Road #1 BB Area

Segment	Angle	Length
1	*5*	*3,158*
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #1	5	3,158

Road #2 West Quarry

Segment	Angle	Length
1	*5*	*10,563*
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #2	5	10,563

Road #3

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #3		

Road #4

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #4		

Road #5

Segment	Angle	Length
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
Road #5		

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

FACILITIES RECLAMATION SUMMARY

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
LEVEL AREA TO BE RECLAIMED (acres)	2.4	3.9	2.8	4.2	3.7	17.0
SLOPE AREA TO BE RECLAIMED (acres)						
SLOPE GRADING						
LEVEL AREA GRADING	$76	$120	$87	$131	$120	$534
RIPPING SUBSOIL						
EXCAVATION - SEDIMENT CONTROL						
BERM - SEDIMENT CONTROL						
TOPSOIL REAPPLICATION - LEVEL AREAS	$1,281	$2,067	$1,488	$4,010	$2,564	$11,411
TOPSOIL REAPPLICATION - SLOPES						
TOPSOIL GRADING - LEVEL AREAS						
TOPSOIL GRADING - SLOPES						
SEED AND AMENDMENT COSTS	$473	$768	$551			$1,792
SEED & AMENDMENT APPLICATION COSTS	$905	$1,470	$1,055			$3,430
TOTALS	$2,735	$4,425	$3,182	$4,141	$2,684	$17,167

Total Acres to be Reclaimed 17.0

REGRADING AND RESEEDING	$17,167
LINER BURIAL	
LINER REMOVAL	
STRUCTURE REMOVAL	$12,619
FOUNDATION DEMOLITION	$8,107
POST-CLOSURE MONITORING	$62,250
TOTAL FACILITES RECLAMATION	**$100,142**

54

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

	Area #1	Area #2	Area #3	Area #4	Area #5	Area #6	Area #7	Area #8	Total
Area Description	*WQ Soil #2*	*BB Soil Pile*	*WQ Soil #1*	*P Mtn. Crusher*	*BB Crusher*				
Slope Height (feet)									
Level Area Surface Acreage	*2.4*	*3.9*	*2.8*	*4.2*	*3.7*				17.0
Final Level Area Acreage	*2.4*	*3.9*	*2.8*	*4.2*	*3.7*				17.0
Slope Length (feet)	*320*	*410*	*350*	*300*	*400*				
Existing Slope Angle (degrees)	*10*	*10*	*10*	*10*	*10*				
Existing Slope Distance (feet)	320	410	350	300	400				
Existing Slope Area (acres)									
Final Slope Angle (degrees)	*10*	*10*	*10*	*10*	*10*				
Final Slope Distance (feet)	320	410	350	300	400				
Final Slope Area (acres)									
Topsoil Depth - Tops (feet)	*1*	*1*	*1*	*1*	*1*				
Topsoil Depth - Slopes (feet)	*1*	*1*	*1*	*1*	*1*				
Slope Reappl. Method (Scraper/T&L)	*S*	*S*	*S*	*S*	*S*				
Topsoil Haul Distance (feet)	*600*	*600*	*600*	*1500*	*1000*				
Total Topsoil Required (cu yd)	3,872	6,292	4,517	6,776	5,969				27,426

Total Acres to be Reclaimed: 17.0

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

LEVEL AREA GRADING

Equipment	CAT/D9N
Graded Width (feet)	15.3
Average Pass Length (feet)	300
Number of Passes	3
Average Speed (mph)	6
Maneuver Time (min)	0.3
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Average Pass Length (feet)	300	300	300	300	300	
Travel Distance (feet)	6,833	11,104	7,972	11,958	10,534	
Number of Passes	69	111	81	120	105	
Total Hours at 80% Efficiency	0.7	1.1	0.8	1.2	1.1	5
Total Labor Cost	$17	$26	$19	$29	$26	$117
Total Operating Cost	$60	$94	$68	$102	$94	$417
TOTALS	$76	$120	$87	$131	$120	

LEVEL GRADING $534

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

TOPSOIL REAPPLICATION - LEVEL AREAS

Scraper	CAT/631E
Number of Scrapers	3
Capacity (cu yd)	31
Average Speed (mph)	25
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	1
Operating Cost ($/hr)	$101.60
Labor Cost ($/hr)	$24.09

Dozer	CAT/D9N
Operating Cost ($/hr)	$85.20
Labor Cost ($/hr)	$23.87

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Volume to Move (cu yd)	3,872	6,292	4,517	6,776	5,969	27,426
Hourly Production (LCY)	525	525	525	290	400	
Total Hours per Scraper at 80% Efficiency	3.1	5	3.6	9.7	6.2	28
Total Scraper Labor Cost	$224	$361	$260	$701	$448	$1,995
Total Scraper Operating Cost	$945	$1,524	$1,097	$2,957	$1,890	$8,412
Total Scraper Costs	$1,169	$1,885	$1,357	$3,658	$2,338	$10,407
Total Dozer Hours at 80% Efficiency	1.0	1.7	1.2	3.2	2.1	9.2
Total Dozer Labor Costs	$25	$40	$29	$77	$49	$220
Total Dozer Operating Costs	$88	$142	$102	$275	$176	$784
Total Dozer Costs	$112	$182	$131	$352	$226	$1,003
TOTALS	$1,281	$2,067	$1,488	$4,010	$2,564	

TOPSOIL REAPPL - TOPS $11,411

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

SEED AND AMENDMENT COSTS

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Seed Mix - Tops	1	1	1			
Amendments & Mulch - Tops	1	1	1			
Seed Mix - Slopes	1	1	1			
Amendments & Mulch - Slopes	1	1	1			
Seed Costs - Tops	$129	$210	$151			$490
Amendment Costs - Tops	$343	$558	$400			$1,301
Seed Costs - Slopes						
Amendment Costs - Slopes						
TOTALS	$473	$768	$551			

TOP SEED AND AMENDMENT	$1,792
SLOPE SEED AND AMENDMENT	
SEED AND AMENDMENT TOTAL	$1,792

SEEDING AND AMENDMENT APPLICATION COSTS

	WQ Soil #2	BB Soil Pile	WQ Soil #1	P Mtn. Crusher	BB Crusher	Total
Seed Application Method - Tops	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*			
Amendments Application - Tops	*Spreader*	*Spreader*	*Spreader*			
Mulch Application Method - Tops	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*			
Seed Application Method - Slopes	*Broad/Harrow*	*Broad/Harrow*	*Broad/Harrow*			
Amendments Application - Slopes	*Spreader*	*Spreader*	*Spreader*			
Mulch Application Method - Slopes	*Alfalfa Pellets*	*Alfalfa Pellets*	*Alfalfa Pellets*			
Seed Application Costs - Tops	$113	$183	$131			$427
Amendment Application Costs - Tops	$72	$117	$84			$273
Mulch Application Costs - Tops	$720	$1,170	$840			$2,730
Seed Application Costs - Slopes						
Amendment Application Costs - Slopes						
Mulch Application Costs - Slopes						
TOTALS	$905	$1,470	$1,055			

TOP SEEDING/AMEND APPL. COST	$3,430
SLOPE SEEDING/AMEND APPL. COST	
SEEDING/AMEND APPL. TOTAL	$3,430

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

STRUCTURE DEMOLITION AND DISPOSAL

FACILITY	LENGTH	WIDTH	HEIGHT	VOLUME (FT^2)	MANHRS/FT^3	COST	SOURCE
PROCESS FACILITES	*125*	*125*	*20*	312,500	*0.003*	$12,619	*Means, 1995*
OFFICE BUILDING							
EQUIPMENT							
TRAILERS							
PIPELINES							
POWERLINES							
TELEPHONE LINES							
FUEL STORAGE							
OTHER							
SUBTOTAL						$12,619	

TOTAL COST **$12,619**

CONCRETE DEMOLITION COSTS

FACILITY	WALL HEIGHT	THICKNESS	LENGTH	VOLUME (YD^2)	UNIT COST	COST	SOURCE
PROCESS FACILITES	*3.0*	*1.5*	*1280.0*	213.3	*$38.00*	$8,107	*1995 NCE*
OFFICE BUILDING							
LAB							
CHANGE HOUSE							
PIPELINES/PUMPS							
POWER							
WAREHOUSE							
FUEL STORAGE							
OTHER							
SUBTOTAL				213.3		$8,107	

TOTAL COST **$8,107**

CRICKET MOUNTAIN PROJECT
Crusher Facility and Misc. Reclamation Costs

POSTCLOSURE MONITORING

Consultant Rates ($/hr)	*$80*
Sample Analysis Rate ($/sample)	*$175*
Length of Monitoring (mo.)	*60*
Samples/Quarter	*4*
Number of Samples	60
Total Consulting Hours	600
Travel Expenses	$3,750
Consulting Fees	$51,750
Analytical Fees	$10,500
TOTAL COST	**$62,250**

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

PIT RECLAMATION SUMMARY

			Total
SLOPE GRADING			
LEVEL AREA GRADING			
RIPPING SUBSOIL			
EXCAVATION - SEDIMENT CONTROL			
PIT SAFETY BERM CONSTRUCTION			
BOULDER PLACEMENT COSTS	$2,067	$3,137	$5,204
FENCE INSTALLATION			
TOPSOIL REAPPLICATION - LEVEL AREAS			
TOPSOIL REAPPLICATION - SLOPES			
TOPSOIL GRADING - LEVEL AREAS			
TOPSOIL GRADING - SLOPES			
SEED AND AMENDMENT COSTS			
SEED & AMENDMENT APPLICATION COSTS			
TOTALS	$2,067	$3,137	$5,204

TOTAL PIT RECLAMATION **$5,204**

CRICKET MOUNTAIN PROJECT
Pit Area Reclamation Costs

PIT SAFETY BOULDER PLACEMENT

Loader	CAT/988
Capacity (cu yd)	7
Average Speed (mph)	10
Load, Dump, Maneuver Time (min)	0.3
Correction Factor	0.75
Operating Cost ($/hr)	$122.50
Labor Cost ($/hr)	$24.09

			Total
Description	*Flat Iron*	*North Lobe*	
Size of Boulder (diameter in ft)	*4*	*4*	
Boulder Density (ft^3/ton)	*13*	*13*	
Boulder Spacing (ft)	*6*	*6*	
Pit Permiter Length (ft)	*2,600*	*3,600*	6,200
Haul Distance (ft)	*250*	*300*	
Boulders to Move	433	600	1,033
Hourly Production (# of boulders)	38.5	35	
Total Hours at 80% Efficiency	14.1	21.4	35.5
Total Labor Cost	$340	$516	$855
Total Operating Cost	$1,727	$2,622	$4,349
TOTALS	$2,067	$3,137	

PIT SAFETY BOULDER PLACEMENT TOTAL $5,204