

ATTACHMENT 4

Bid Summary							
Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1							
Currency: United States							
Grand Total Price: w/o Contingency and Escalation						25,360,784	
Tax (%)						0.00	
Total Price: w/o Contingency and Escalation						25,360,784	
Total Adjustments						0	
Total Markup						5,127,390	
Markup (%)						6.00	
Overhead (%)						16.72	
Escalation (%)						0.00	
Bonding (per 1,000)						6.40	
Insurance (per 1,000)						15.00	
Total Project Cost						20,233,394	
Total Engineering Costs (E)						0.00	
Total Construction Cost						20,233,394	
Total Indirect Costs (I)						0.00	
Total Plant Costs (P)						0.00	
Total Direct Costs (D)						100.00	
						20,233,394	
Item	Spec	Code	Description	Quantity	UOM	Unit Cost	Total Cost
St Anthony Closeout Plan				7,809,000.00	CY	2.59	20,233,394
Mobilization and Preparation Work				1.00	LS	1,188,781.83	1,188,782
D 0010			Mobilization and Preparation Work	1.00	LS	1,028,300.00	1,028,300
D 0020			Erosion Control Devices	1.00	LS	79,158.64	79,159
D 0030			Relocate 14.4kV Distribution Line	1,700.00	LF	16.37	27,829
D 0040			Break Concrete Slabs	2,500.00	CY	6.95	17,370
D 0050			Access Road Improvements	42,240.00	SY	0.86	36,125
Regrading (Sandstone - Except Piles 1 & 2)				6,847,000.00	CY	1.69	11,547,521
D 0010			Regrade Pile 1 & 2 (Shale)	1,644,000.00	CY	1.52	2,496,384
D 0020			Regrade Pile 3 (Sandstone)	473,000.00	CY	1.44	681,866
D 0030			Regrade Pile 4 (Sandstone)	4,185,000.00	CY	1.72	7,218,869
D 0040			Regrade Pile 5 (Sandstone)	186,000.00	CY	1.13	210,557
D 0050			Regrade Pile 6 (Sandstone)	101,000.00	CY	1.18	118,903
D 0060			Regrade Pile 7 (Sandstone)	31,000.00	CY	1.04	32,203
D 0070			Regrade Crusher/Stockpile Area (Sandstone)	102,000.00	CY	0.77	78,727
D 0080			Regrade West Disturbance Area (Sandstone)	83,000.00	CY	1.58	131,087
D 0090			Regrade West Shaft Area (Sandstone)	3,000.00	CY	1.01	3,017
D 0100			Regrade Ore Storage Areas 1 & 2 (Sandstone)	3,000.00	CY	1.42	4,266
D 0110			Regrade West Shaft Access Road (Sandstone)	26,000.00	CY	0.77	20,068
D 0120			Earthern Control Structure (Budget)	10,000.00	CY	0.72	7,190
D 0130			Maintain Haul Roads	46.00	WK	11,834.43	544,384
Cover Material (Gravelly Sands & Silts)				962,000.00	CY	2.01	1,935,922
D 0010			Topsoil Stockpile 1 (North)	39,000.00	CY	1.51	58,953
D 0020			Topsoil Stockpile 2 (South)	284,000.00	CY	1.22	345,973
D 0030			Topsoil/Overburden Stockpile (North of Pile 5)	541,000.00	CY	2.30	1,242,207
D 0040			Cover Material from Borrow Area (South)	98,000.00	CY	1.98	194,114
D 0050			Maintain Haul Roads	8.00	WK	11,834.43	94,675
Channel Protection				33,120.00	LF	156.69	5,189,726
D 0010			Myer Gulch	316,550.00	SF	10.90	3,450,395
D 0020			Pile 4 Top Surface Drainage Channel	45,000.00	SF	10.90	490,500
D 0030			Pile Downchutes	58,500.00	SF	10.90	637,650
D 0040			Pile Slope Channels (6" Thick Soil Cement)	55,111.00	SY	11.09	611,181
Road Reclamation				14,000.00	LF	1.47	20,564
D 0010			Ripping and Regrading Roadways	14,000.00	LF	1.47	20,564
Revegetation				320.00	AC	1,096.49	350,878
D 0010			Revegetation	320.00	AC	1,096.49	350,878

Activity Summary																
Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1																
Currency: United States																
Item	Status	Description	Quantity	UOM	Man-hours	Labor	Equipment	Job Material	Perm Material	Perm Equipmen	Subcontract	Plug	Allowance	Total Cost	Unit Cost	Manhour Cost
St Anthony Closeout Plan			7,809,000.00	CY	94,421.31	4,747,020.14	11,386,422.85	38,870.00	3,696,080.67				365,000.00	20,233,393.66	2.59	214.29
		Mobilization and Preparation Work	1.00	LS	10,949.18	499,044.06	286,614.77	22,670.00	15,453.00				365,000.00	1,188,781.83	1,188,781.83	108.57
0010	Bid	Mobilization and Preparation Work	1.00	LS	9,000.00	414,840.00	248,460.00						365,000.00	1,028,300.00	1,028,300.00	114.26
0000	Bid	West Shaft Access Road	8,000.00	CY	122.33	5,034.90	14,808.51							19,843.41	2.48	162.21
0040	Bid	Cover Material from Borrow Area (South)	98,000.00	CY	1,091.32	44,859.48	149,254.45							194,113.94	1.98	177.87
0000	Bid	Exc. Haul & Spread on Pit 1	96,000.00	CY	1,063.51	43,715.58	145,941.05							189,656.64	1.98	178.33
0000	Bid	Haul & Spread on Crusher Stockpile Area	2,000.00	CY	27.80	1,143.90	3,313.40							4,457.30	2.23	160.32
0050	Bid	Maintain Haul Roads	8.00	WK	1,128.00	41,534.88	50,740.56	2,400.00						94,675.44	11,834.43	83.93
0010	Bid	Maintain Haul Roads	8.00	Week	1,128.00	41,534.88	50,740.56	2,400.00						94,675.44	11,834.43	83.93
		Channel Protection	33,120.00	LF	0.00	1,258,968.27	442,130.05		3,488,627.67				5,189,725.99	156.69		
0010	Bid	Myer Gulch	316,550.00	SF	0.00	842,023.00	123,454.50	2,484,917.50						3,450,395.00	10.90	
0000	Bid	Install ArmorFlex	316,550.00	SF	0.00	842,023.00	123,454.50	2,484,917.50						3,450,395.00	10.90	
0020	Bid	Pile 4 Top Surface Drainage Channel	45,000.00	SF	0.00	119,700.00	17,550.00	353,250.00						490,500.00	10.90	
0000	Bid	Install ArmorFlex	45,000.00	SF	0.00	119,700.00	17,550.00	353,250.00						490,500.00	10.90	
0030	Bid	Pile Downchutes	58,500.00	SF	0.00	155,610.00	22,815.00	459,225.00						637,650.00	10.90	
0000	Bid	Install ArmorFlex	58,500.00	SF	0.00	155,610.00	22,815.00	459,225.00						637,650.00	10.90	
0040	Bid	Pile Slope Channels (6" Thick Soil Cement)	55,111.00	SY	0.00	141,635.27	278,310.55	191,235.17						611,180.99	11.09	
0000	Bid	Soil Cement on Pile Slope Channels	55,111.00	SY	0.00	141,635.27	278,310.55	191,235.17						611,180.99	11.09	
		Road Reclamation	14,000.00	LF	195.75	8,380.93	12,183.24						20,564.17	1.47	105.05	
0010	Bid	Ripping and Regrading Roadways	14,000.00	LF	195.75	8,380.93	12,183.24							20,564.17	1.47	105.05
0000	Bid	Ripping Roadways w/Dozer	41,500.00	CY	47.16	1,889.00	4,909.73							6,798.74	0.16	144.17
0000	Bid	Regrade Roadways	62,200.00	SY	148.59	6,491.92	7,273.51							13,765.43	0.22	92.64
		Revegetation	320.00	AC	200.00	85,753.60	73,124.40		192,000.00				350,878.00	1,096.49	1,754.39	
0010	Bid	Revegetation	320.00	AC	200.00	85,753.60	73,124.40	192,000.00						350,878.00	1,096.49	1,754.39

Estimate Line Detail

Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1

Currency: United States

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
St Anthony Closeout Plan		7,809,000.00	CY		94,421	4,747,020	11,386,423	38,870	3,696,081	365,000	20,233,394
					0.01	0.61	1.46	0.00	0.47	0.05	2.59
Mobilization and Preparation Work		1.00	LS		10,949	499,044	286,615	22,670	15,453	365,000	1,188,782
					10,949.18	499,044.06	286,614.77	22,670.00	15,453.00	365,000.00	1,188,781.83
0010	Mobilization and Preparation Work	1.00	LS		9,000	414,840	248,460			365,000	1,028,300
					9,000.00	414,840.00	248,460.00			365,000.00	1,028,300.00
0010	Mob/Demob Major Equipment	1.00	LS		9,000	414,840	248,460				663,300
					9,000.00	414,840.00	248,460.00				663,300.00
	Assumes that there will be 3 primary crews working, plus the crew for maintaining the haul										
0010	Mob & Assemble Equipment	30.00	EA		5,100	233,784	135,720				369,504
					170.00	7,792.80	4,524.00				12,316.80
	Prod=0.03 EA/hour, 120.000MH/EA, 0.01 EA/MH, 900.00 hour										
	Equipment Erection	1.00	EA	252.36							
	Crane Operator	1.0		43.69		39,321					
	Mechanic Foreman	1.0		44.69		40,221					
	Heavy Duty Mechanic	1.0		43.69		39,321					
	Heavy Duty Mechanic	1.0		43.69		39,321					
	185 CFM Diesel Compressor	1.0		12.59			11,331				
	40 Ton Hydraulic Crane (Grove700)	1.0		46.19			41,571				
	1- Ton Mechanic Truck	1.0		17.82			16,038				
	Prod=0.02 EA/hour, 50.000MH/EA, 0.02 EA/MH, 1,500.00 hour										
	Haul with Lowboy	1.00	EA	94.92							
	Highway Truck Driver	1.0		50.40		75,600					
	80 Ton Lowboy	1.0		44.52			66,780				
0020	Disassemble & Demob Equipment	30.00	EA		3,900	181,056	112,740				293,796
					130.00	6,035.20	3,758.00				9,793.20
	Prod=0.05 EA/hour, 80.000MH/EA, 0.01 EA/MH, 600.00 hour										
	Equipment Disassembly	1.00	EA	252.36							
	Crane Operator	1.0		43.69		26,214					
	Mechanic Foreman	1.0		44.69		26,814					
	Heavy Duty Mechanic	1.0		43.69		26,214					
	Heavy Duty Mechanic	1.0		43.69		26,214					
	185 CFM Diesel Compressor	1.0		12.59			7,554				
	40 Ton Hydraulic Crane (Grove700)	1.0		46.19			27,714				
	1- Ton Mechanic Truck	1.0		17.82			10,692				
	Prod=0.02 EA/hour, 50.000MH/EA, 0.02 EA/MH, 1,500.00 hour										
	Haul with Lowboy	1.00	EA	94.92							
	Highway Truck Driver	1.0		50.40		75,600					
	80 Ton Lowboy	1.0		44.52			66,780				
0020	Mob Project Facilities	1.00	LS							250,000	250,000
										250,000.00	250,000.00
0030	Miscellaneous	1.00	LS							115,000	115,000
										115,000.00	115,000.00

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0020	Erosion Control Devices	1.00	LS		1,343	47,577	11,912	19,670			79,159
					1,342.93	47,576.81	11,911.83	19,670.00			79,158.64
0010	Install/Remove Silt Fence	30,000.00	LF		810	28,682	7,181	14,400			50,263
					0.03	0.96	0.24	0.48			1.68
	Prod=600.00 ft/hour, 0.007MH/ft, 150.00 ft/MH, 50.00 hour										
	Remove - Silt Fence with Rubber Tire Backhoe	1.00	EA	177.19							
	Backhoe Operator	1.0		43.69		2,185					
	Labour Foreman	1.0		35.08		1,754					
	Labourer	2.0		31.47		3,147					
	1.7 CY Backhoe Loader (Case680)	1.0		27.12			1,356				
	1/2 Ton Pickup Truck 4x4	1.0		8.36			418				
	Prod=196.85 ft/hour, 0.020MH/ft, 49.21 ft/MH, 152.40 hour										
	Erect - Silt Fence with Rubber Tire Backhoe	1.00	EA	177.19							
	Backhoe Operator	1.0		43.69		6,658					
	Labour Foreman	1.0		35.08		5,346					
	Labourer	2.0		31.47		9,592					
	1.7 CY Backhoe Loader (Case680)	1.0		27.12			4,133				
	1/2 Ton Pickup Truck 4x4	1.0		8.36			1,274				
	Medium Duty Silt Fence	30,000.0	ft	0.48				14,400			
0020	Install/Remove Straw Bales	1,000.00	EA		533	18,895	4,731	5,270			28,895
					0.53	18.89	4.73	5.27			28.90
	Prod=30.00 ea/hour, 0.133MH/ea, 7.50 ea/MH, 33.33 hour										
	Remove - Straw Bales	1.00	EA	177.19							
	Backhoe Operator	1.0		43.69		1,456					
	Labour Foreman	1.0		35.08		1,169					
	Labourer	2.0		31.47		2,098					
	1.7 CY Backhoe Loader (Case680)	1.0		27.12			904				
	1/2 Ton Pickup Truck 4x4	1.0		8.36			279				
	Prod=10.00 ea/hour, 0.400MH/ea, 2.50 ea/MH, 100.00 hour										
	Place - Straw Bales	1.00	EA	177.19							
	Backhoe Operator	1.0		43.69		4,369					
	Labour Foreman	1.0		35.08		3,508					
	Labourer	2.0		31.47		6,294					
	1.7 CY Backhoe Loader (Case680)	1.0		27.12			2,712				
	1/2 Ton Pickup Truck 4x4	1.0		8.36			836				
	Straw Bales	1,000.0	ea	4.22				4,220			
	Stakes for Straw Bales (2" x 2" x 4 ft)	1,000.0	ea	1.05				1,050			
0030	Relocate 14.4kV Distribution Line	1,700.00	LF			10,965	1,411				12,376
						6.45	0.83				7.28
000010	Relocate 14.4kV Distribution Line	1,700.00	LF			10,965	1,411				12,376
						6.45	0.83				7.28
	Relocate 14.4kV Distribution Line	1,700.0	LF	6.45		10,965					
	Relocate 14.4kV Distribution Line	1,700.0	LF	0.83			1,411				
	14.4kV Distribution Line	1,700.0	LF	9.09					15,453		

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0040	Break Concrete Slabs	2,500.00	CY		156	6,558	10,812				17,370
					0.06	2.62	4.32				6.95
	Slabs to West of Pile 3: <input type="checkbox"/> <input type="checkbox"/> 1,490 SF <input type="checkbox"/> 2,475 SF <input type="checkbox"/> 3,785 SF <input type="checkbox"/> <input type="checkbox"/> Shaft Slab = 25,950 SF <input type="checkbox"/> <input type="checkbox"/> Total = 33,700 SF x 2' Thick / 27 = 2,496 CY <input type="checkbox"/> <input type="checkbox"/> Say 2,500 CY to break and leave in place. <input type="checkbox"/>										
	Prod=20.00 cy/hour, 0.063MH/cy, 16.00 cy/MH, 125.00 hour <i>Demolish Concrete</i> 1.00 EA 138.9575 Backhoe Operator 1.0 43.69 5,461 Labour Foreman 0.3 35.08 1,096 2.0 CY Backhoe (Cat 330) 1.0 60.25 7,531 Hydraulic Hoe Ram 1.0 23.55 2,944 3/4 Ton Pickup Truck 4x4 0.3 10.79 337										
0050	Access Road Improvements	42,240.00	SY		450	19,105	14,020	3,000			36,125
					0.01	0.45	0.33	0.07			0.86
	Based on 3 miles of road at 24' wide. Prod=281.60 sy/hour, 0.011MH/sy, 93.87 sy/MH, 150.00 hour <i>Maintain/Improve Access Road</i> 1.00 EA 220.83 Grader Operator 1.0 43.69 6,554 Labour Foreman 0.5 35.08 2,631 Labourer 0.5 31.47 2,360 Highway Truck Driver 1.0 50.40 7,560 200 Hsp Grader (Cat 14G) 1.0 69.82 10,473 3/4 Ton Pickup Truck 4x4 0.5 10.79 809 1000 Gallon Watertruck 1.0 18.25 2,738 Purchase Water from Local Rancher 10.0 Week 300.00 3,000										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Regrading (Sandstone - Except Piles 1 & 2)	6,847,000.00	CY		70,992	2,413,059	9,120,662	13,800			11,547,521
					0.01	0.35	1.33	0.00			1.69
0010	Regrade Pile 1 & 2 (Shale)	1,644,000.00	CY		13,193	444,626	2,051,758				2,496,384
					0.01	0.27	1.25				1.52
000010	Exc, Haul & Spread in Pit 2	1,644,000.00	CY		13,193	444,626	2,051,758				2,496,384
					0.01	0.27	1.25				1.52
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=810.00 CY/hour, 0.007MH/CY, 147.27 CY/MH, 2,029.63 hour <i>P1&2: Exc & Haul w/5130B, 3 ea 777, 1/4 Dozer</i>										
		1.00	EA	1074.44							
	Backhoe Operator	1.0		43.69		88,675					
	Labour Foreman	0.3		35.08		17,800					
	Dozer Operator	0.3		35.31		17,917					
	Oiler	1.0		30.79		62,492					
	Off Hwy Truck Driver	3.0		30.56		186,076					
	405 Hsp Bulldozer (Cat D9)	0.3		120.22			61,001				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			611,000				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			1,130,280				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			5,475				
	Prod=1,215.00 LCY/hour, 0.001MH/LCY, 1,215.00 LCY/MH, 2,029.63 hour <i>Spread Rockfill D9 Dozer</i>										
		1.00	EA	155.53							
	Dozer Operator	1.0		35.31		71,666					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			244,002				
0020	Regrade Pile 3 (Sandstone)	473,000.00	CY		3,710	125,992	555,874				681,866
					0.01	0.27	1.18				1.44
	Pile 3;□ 225,000 CY to Pit 2 as 4' of cover over the Shale, and 182,000 CY to Pit 1.□ Haul to Pit 2 = (1800' + 2200')/2 = 2000'□ Avrg EL at Pile = (6110 + 6050)/2 = 6080□ Avrg EL at Pit = 6050 - 4' = 6046□ Avrg Grade for Haul = 6080 - 6046 = 34' / 2000' =										
000010	Exc, Haul & Spread in Pit 2	225,000.00	CY		2,051	69,652	307,301				376,953
					0.01	0.31	1.37				1.68
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=850.00 CY/hour, 0.008MH/CY, 125.93 CY/MH, 264.71 hour <i>P3: Exc & Haul w/5130B, 3 ea 777, 1.5 Dozer</i>										
		1.00	EA	1268.8525							
	Backhoe Operator	1.0		43.69		11,565					
	Labour Foreman	0.3		35.08		2,321					
	Dozer Operator	1.5		35.31		14,020					
	Oiler	1.0		30.79		8,150					
	Off Hwy Truck Driver	3.0		30.56		24,268					
	405 Hsp Bulldozer (Cat D9)	1.5		120.22			47,734				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			79,687				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			147,412				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			714				
	Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 264.13 hour										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	<i>Spread Rockfill D9 Dozer</i>	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		9,326					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			31,754				
000020	Exc, Haul & Spread in Pit 1	182,000.00	CY		1,659	56,340	248,573				304,913
					0.01	0.31	1.37				1.68
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=850.00 CY/hour, 0.008MH/CY, 125.93 CY/MH, 214.12 hour										
	<i>P3: Exc & Haul w/5130B, 3 ea 777, 1.5 Dozer</i>	1.00	EA	1268.8525							
	Backhoe Operator	1.0		43.69		9,355					
	Labour Foreman	0.3		35.08		1,878					
	Dozer Operator	1.5		35.31		11,341					
	Oiler	1.0		30.79		6,593					
	Off Hwy Truck Driver	3.0		30.56		19,630					
	405 Hsp Bulldozer (Cat D9)	1.5		120.22			38,612				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			64,458				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			119,240				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			578				
	Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 213.65 hour										
	<i>Spread Rockfill D9 Dozer</i>	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		7,544					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			25,685				
000030	Exc & Place Fill	4,074.00	CY								
	Costs are included in the crew used for the excavation and haul operations, by virtue of the additional dozer, operator and laborer for the full duration of that work.										
0030	Regrade Pile 4 (Sandstone)	4,185,000.00	CY		43,436	1,460,011	5,758,858				7,218,869
					0.01	0.35	1.38				1.72
000010	Area 01; Exc, Fill, Haul & Spread in Pit 1	1,678,000.00	CY		16,528	554,898	2,544,180				3,099,078
					0.01	0.33	1.52				1.85
000010	Exc, Haul & Spread in Pit 1	1,606,000.00	CY		16,528	554,898	2,544,180				3,099,078
					0.01	0.35	1.58				1.93
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=850.00 CY/hour, 0.009MH/CY, 109.68 CY/MH, 1,889.41 hour										
	<i>P4-01: Exc & Haul w/5130B, 4 ea 777, 1.5 Dozer</i>	1.00	EA	1485.0425							
	Backhoe Operator	1.0		43.69		82,548					
	Labour Foreman	0.3		35.08		16,570					
	Dozer Operator	1.5		35.31		100,073					
	Oiler	1.0		30.79		58,175					
	Off Hwy Truck Driver	4.0		30.56		230,962					
	405 Hsp Bulldozer (Cat D9)	1.5		120.22			340,718				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			568,789				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	4.0		185.63			1,402,926				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			5,097				
	Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 1,885.30 hour										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Spread Rockfill D9 Dozer	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		66,570					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			226,651				
000020	Exc & Place Fill	72,000.00	CY								
	Costs are included in the crew used for the excavation and haul operations, by virtue of the additional dozer, operator and laborer time for the full duration of that work.										
000020	Area 02; Cut & Place Fill	659,000.00	CY		7,753	259,568	859,925				1,119,494
					0.01	0.39	1.30				1.70
	An additional 62,000 CY of fill comes from Area 04. The costs for that volume is in the Area 04 section of the estimate.										
000010	Exc & Place Fill in Area 2	659,000.00	CY		7,753	259,568	859,925				1,119,494
					0.01	0.39	1.30				1.70
	Prod=850.00 CY/hour, 0.012MH/CY, 85.00 CY/MH, 775.29 hour										
	P4-02: Exc & Place Fill w/5130B, 3 ea 777, 2 Doz	1.00	EA	1443.96							
	Backhoe Operator	1.0		43.69		33,873					
	Labour Foreman	1.0		35.08		27,197					
	Labourer	2.0		31.47		48,797					
	Dozer Operator	2.0		35.31		54,751					
	Oiler	1.0		30.79		23,871					
	Off Hwy Truck Driver	3.0		30.56		71,079					
	405 Hsp Bulldozer (Cat D9)	2.0		120.22			186,412				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			233,395				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			431,754				
	3/4 Ton Pickup Truck 4x4	1.0		10.79			8,365				
000020	Balance of Fill Needed in Area 04 Costs	72,000.00	CY								
000030	Area 03; Exc, Fill, Haul & Spread in Pit 1	1,565,000.00	CY		16,482	555,489	2,031,241				2,586,730
					0.01	0.35	1.30				1.65
000010	Exc, Haul & Spread in Pit 1	1,557,000.00	CY		16,482	555,489	2,031,241				2,586,730
					0.01	0.36	1.30				1.66
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=850.00 CY/hour, 0.009MH/CY, 106.25 CY/MH, 1,831.76 hour										
	P4-03: Exc & Haul w/5130B, 3 ea 777, 1 Dozer	1.00	EA	1256.96							
	Backhoe Operator	1.0		43.69		80,030					
	Labour Foreman	1.0		35.08		64,258					
	Labourer	1.0		31.47		57,646					
	Dozer Operator	1.0		35.31		64,680					
	Oiler	1.0		30.79		56,400					
	Off Hwy Truck Driver	3.0		30.56		167,936					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			220,215				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			551,434				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			1,020,091				
	3/4 Ton Pickup Truck 4x4	1.0		10.79			19,765				
	Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 1,827.78 hour										
	Spread Rockfill D9 Dozer	1.00	EA	155.53							

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Dozer Operator	1.0		35.31		64,539					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			219,736				
000020	Exc & Place Fill	8,000.00	CY								
	<p>Since there are only 8,000 CY for the fill quantity, the costs are included in the crew used for the excavation and haul operations, by virtue of the full time dozer, operator and laborer for the full duration of that work.</p>										
000040	Area 04; Exc, Fill, Haul & Spread in Pit 1	283,000.00	CY		2,673	90,056	323,512				413,568
					0.01	0.32	1.14				1.46
000010	Exc, Haul & Spread in Pit 1	97,000.00	CY		1,141	38,094	147,729				185,823
					0.01	0.39	1.52				1.92
	<p>Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.</p>										
	<p>Prod=850.00 CY/hour, 0.011MH/CY, 94.44 CY/MH, 114.12 hour <i>P4-04: Exc & Haul w/5130B, 4 ea 777, 1 Dozer</i> 1.00 EA 1473.15</p>										
	Backhoe Operator	1.0		43.69		4,986					
	Labour Foreman	1.0		35.08		4,003					
	Labourer	1.0		31.47		3,591					
	Dozer Operator	1.0		35.31		4,029					
	Oiler	1.0		30.79		3,514					
	Off Hwy Truck Driver	4.0		30.56		13,950					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			13,719				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			34,354				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	4.0		185.63			84,735				
	3/4 Ton Pickup Truck 4x4	1.0		10.79			1,231				
	<p>Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 113.87 hour <i>Spread Rockfill D9 Dozer</i> 1.00 EA 155.53</p>										
	Dozer Operator	1.0		35.31		4,021					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			13,689				
000020	Exc & Place Fill in Area 4	124,000.00	CY		1,021	34,641	117,189				151,830
					0.01	0.28	0.95				1.22
	<p>Given the amount of material to excavate and place, assume using an excavator with trucks to haul the material, and a full time dozer to spread and grade the fill. The dozer will also be able to cut and push material relatively short distances, such as th</p>										
	<p>Prod=850.00 CY/hour, 0.008MH/CY, 121.43 CY/MH, 145.88 hour <i>P4-04: Exc, Haul & Place w/5130B, 2 ea 777, 1 D</i> 1.00 EA 1040.77</p>										
	Backhoe Operator	1.0		43.69		6,374					
	Labour Foreman	1.0		35.08		5,118					
	Labourer	1.0		31.47		4,591					
	Dozer Operator	1.0		35.31		5,151					
	Oiler	1.0		30.79		4,492					
	Off Hwy Truck Driver	2.0		30.56		8,916					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			17,538				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			43,916				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	2.0		185.63			54,160				
	3/4 Ton Pickup Truck 4x4	1.0		10.79			1,574				
000030	Exc & Place Fill in Area 2	62,000.00	CY		511	17,321	58,594				75,915
					0.01	0.28	0.95				1.22
	Prod=850.00 CY/hour, 0.008MH/CY, 121.43 CY/MH, 72.94 hour										
	P4-04: Exc, Haul & Place w/5130B, 2 ea 777, 1 D	1.00	EA	1040.77							
	Backhoe Operator	1.0		43.69		3,187					
	Labour Foreman	1.0		35.08		2,559					
	Labourer	1.0		31.47		2,295					
	Dozer Operator	1.0		35.31		2,576					
	Oiler	1.0		30.79		2,246					
	Off Hwy Truck Driver	2.0		30.56		4,458					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			8,769				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			21,958				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	2.0		185.63			27,080				
	3/4 Ton Pickup Truck 4x4	1.0		10.79			787				
0040	Regrade Pile 5 (Sandstone)	186,000.00	CY		1,550	52,626	157,931				210,557
					0.01	0.28	0.85				1.13
000010	Exc, Haul & Spread in Pit 1	170,000.00	CY		1,550	52,626	157,931				210,557
					0.01	0.31	0.93				1.24
	Excavation quantities are based on BCY, but the "Spread Rockfill" quantities are based on LCY with the Shale conversion at 1.50, and the Sandstone Conversion at 1.62.										
	Prod=850.00 CY/hour, 0.008MH/CY, 125.93 CY/MH, 200.00 hour										
	P5: Exc & Haul w/5130B, 3 ea 777, 1.5 Dozer	1.00	EA	897.5925							
	Backhoe Operator	1.0		43.69		8,738					
	Labour Foreman	0.3		35.08		1,754					
	Dozer Operator	1.5		35.31		10,593					
	Oiler	1.0		30.79		6,158					
	Off Hwy Truck Driver	3.0		30.56		18,336					
	405 Hsp Bulldozer (Cat D9)	1.5		120.22			36,066				
	12.0 CY Shovel (Cat 5130)	1.0		301.04			60,208				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	1.0		185.63			37,126				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			540				
	Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 199.57 hour										
	Spread Rockfill D9 Dozer	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		7,047					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			23,992				
000030	Exc & Place Fill	16,000.00	CY								
	Costs are included in the crew used for the excavation and haul operations, by virtue of the additional dozer, operator and laborer for the full duration of that work.										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0050	Regrade Pile 6 (Sandstone)	101,000.00	CY		875	29,718	89,185				118,903
					0.01	0.29	0.88				1.18
	Regrading Pile 6 consists of loading and hauling 96,000 CY to Pit #1, and the remaining 5,000 CY stays in place. □ □ Assume this material from this pile will be some of the early material to go into Pit 1, along with Pile 5 (170,000 CY), Pile 7 (26,000 CY)										
000010	Exc, Haul & Spread in Pit 1	96,000.00	CY		875	29,718	89,185				118,903
					0.01	0.31	0.93				1.24
	Prod=850.00 CY/hour, 0.008MH/CY, 125.93 CY/MH, 112.94 hour <i>P6: Exc & Haul w/5130B, 3 ea 777, 1.5 Dozer</i> 1.00 EA 897.5925 Backhoe Operator 1.0 43.69 4,934 Labour Foreman 0.3 35.08 990 Dozer Operator 1.5 35.31 5,982 Oiler 1.0 30.79 3,477 Off Hwy Truck Driver 3.0 30.56 10,354 405 Hsp Bulldozer (Cat D9) 1.5 120.22 20,367 12.0 CY Shovel (Cat 5130) 1.0 301.04 34,000 95 Ton Off Hwy Truck 870 Hsp (Cat 777) 1.0 185.63 20,965 3/4 Ton Pickup Truck 4x4 0.3 10.79 305 Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 112.70 hour <i>Spread Rockfill D9 Dozer</i> 1.00 EA 155.53 Dozer Operator 1.0 35.31 3,979 405 Hsp Bulldozer (Cat D9) 1.0 120.22 13,548										
000030	Exc & Place Fill	5,000.00	CY								
	Costs are included in the crew used for the excavation and haul operations, by virtue of the additional dozer, operator and laborer for the full duration of that work.										
0060	Regrade Pile 7 (Sandstone)	31,000.00	CY		237	8,049	24,154				32,203
					0.01	0.26	0.78				1.04
000010	Exc, Haul & Spread in Pit 1	26,000.00	CY		237	8,049	24,154				32,203
					0.01	0.31	0.93				1.24
	Prod=850.00 CY/hour, 0.008MH/CY, 125.93 CY/MH, 30.59 hour <i>P7: Exc & Haul w/5130B, 3 ea 777, 1.5 Dozer</i> 1.00 EA 897.5925 Backhoe Operator 1.0 43.69 1,336 Labour Foreman 0.3 35.08 268 Dozer Operator 1.5 35.31 1,620 Oiler 1.0 30.79 942 Off Hwy Truck Driver 3.0 30.56 2,804 405 Hsp Bulldozer (Cat D9) 1.5 120.22 5,516 12.0 CY Shovel (Cat 5130) 1.0 301.04 9,208 95 Ton Off Hwy Truck 870 Hsp (Cat 777) 1.0 185.63 5,678 3/4 Ton Pickup Truck 4x4 0.3 10.79 83 Prod=1,380.00 LCY/hour, 0.001MH/LCY, 1,380.00 LCY/MH, 30.52 hour <i>Spread Rockfill D9 Dozer</i> 1.00 EA 155.53 Dozer Operator 1.0 35.31 1,078 405 Hsp Bulldozer (Cat D9) 1.0 120.22 3,669										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000030	Exc & Place Fill	5,000.00	CY								
	Costs are included in the crew used for the excavation and haul operations, by virtue of the additional dozer, operator and laborer for the full duration of that work.										
0070	Regrade Crusher/Stockpile Area (Sandstone)	102,000.00	CY		589	20,781	57,947				78,727
					0.01	0.20	0.57				0.77
000010	Regrade Area	102,000.00	CY		589	20,781	57,947				78,727
					0.01	0.20	0.57				0.77
	The piles of material are in an area roughly 400' wide by 1,000' long, so assume the the average push will be 250', since the area can be broken down into a couple of "cells", and the material pushed both directions from within a cell. Based on the CAT Pe										
	Prod=350.00 LCY/hour, 0.004MH/LCY, 280.00 LCY/MH, 471.43 hour										
	Spread Rockfill D9 Dozer w/Foreman	1.00	EA	166.9975							
	Labour Foreman	0.3		35.08		4,134					
	Dozer Operator	1.0		35.31		16,646					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			56,675				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			1,272				
0080	Regrade West Disturbance Area (Sandstone)	83,000.00	CY		679	24,077	107,011				131,087
					0.01	0.29	1.29				1.58
000010	Load Piles, Haul & Spread in Pit 1	63,000.00	CY		478	15,795	79,011				94,806
					0.01	0.25	1.25				1.50
	Prod=560.00 CY/hour, 0.006MH/CY, 172.31 CY/MH, 112.50 hour										
	WDA: Exc & Haul w/992G & 2 ea 777	1.00	EA	687.6675							
	Labour Foreman	0.3		35.08		987					
	Loader Operator	1.0		35.31		3,972					
	Off Hwy Truck Driver	2.0		30.56		6,876					
	13.5 CY Loader (Cat 992)	1.0		208.51			23,457				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	2.0		185.63			41,767				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			303				
	Prod=910.00 LCY/hour, 0.001MH/LCY, 910.00 LCY/MH, 112.15 hour										
	Spread Rockfill D9 Dozer	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		3,960					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			13,483				
000020	(TBD) Excavate 2' Deep & Haul to Pit 1	20,000.00	CY		202	8,281	28,000				36,281
					0.01	0.41	1.40				1.81
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 27.80 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		1,148					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			4,601				
	Prod=719.37 cy/hour, 0.009MH/cy, 115.10 cy/MH, 27.80 hour										
	631 Scraper Haul 2900-3900 ft	1.00	EA	1098.1875							
	Scraper Operator	6.0		41.30		6,889					
	Labour Foreman	0.3		35.08		244					
	26 CY Scraper 450 hsp (Cat 631)	6.0		139.82			23,324				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			75				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0090	Regrade West Shaft Area (Sandstone)	3,000.00	CY		19	685	2,332				3,017
					0.01	0.23	0.78				1.01
000010	Regrade Area	3,000.00	CY		19	685	2,332				3,017
					0.01	0.23	0.78				1.01
	Very little information is available for this work, so assume the same approach as the Regrade Crusher/Stockpile Area.										
	Prod=250.00 LCY/hour, 0.004MH/LCY, 250.00 LCY/MH, 19.40 hour Spread Rockfill D9 Dozer 1.00 EA 155.53 Dozer Operator 1.0 35.31 685 405 Hsp Bulldozer (Cat D9) 1.0 120.22 2,332										
0100	Regrade Ore Storage Areas 1 & 2 (Sandstone)	3,000.00	CY		22	741	3,525				4,266
					0.01	0.25	1.17				1.42
000010	Load Piles, Haul & Spread in Crusher/Stockpile A	2,500.00	CY		19	627	3,135				3,762
					0.01	0.25	1.25				1.50
	Prod=560.00 CY/hour, 0.006MH/CY, 172.31 CY/MH, 4.46 hour OSA: Exc & Haul w/992G & 2 ea 777 1.00 EA 687.6675 Labour Foreman 0.3 35.08 39 Loader Operator 1.0 35.31 158 Off Hwy Truck Driver 2.0 30.56 273 13.5 CY Loader (Cat 992) 1.0 208.51 931 95 Ton Off Hwy Truck 870 Hsp (Cat 777) 2.0 185.63 1,657 3/4 Ton Pickup Truck 4x4 0.3 10.79 12 Prod=910.00 LCY/hour, 0.001MH/LCY, 910.00 LCY/MH, 4.45 hour Spread Rockfill D9 Dozer 1.00 EA 155.53 Dozer Operator 1.0 35.31 157 405 Hsp Bulldozer (Cat D9) 1.0 120.22 535										
000020	Regrade Ore Storage Area	500.00	CY		3	114	390				504
					0.01	0.23	0.78				1.01
	Very little information is available for this work, so assume the same approach as the Regrade Crusher/Stockpile Area.										
	Prod=250.00 LCY/hour, 0.004MH/LCY, 250.00 LCY/MH, 3.24 hour Spread Rockfill D9 Dozer 1.00 EA 155.53 Dozer Operator 1.0 35.31 114 405 Hsp Bulldozer (Cat D9) 1.0 120.22 390										
0110	Regrade West Shaft Access Road (Sandstone)	26,000.00	CY		150	5,297	14,771				20,068
					0.01	0.20	0.57				0.77
000020	Regrade West Shaft Access Road	26,000.00	CY		150	5,297	14,771				20,068
					0.01	0.20	0.57				0.77
	Very little information is available for this work, so assume the same approach as the Regrade Crusher/Stockpile Area, except that the production rate is reduced because of the tighter area, shorter slopes, etc.										
	This is considered rough grading and addi										
	Prod=350.00 LCY/hour, 0.004MH/LCY, 280.00 LCY/MH, 120.17 hour Spread Rockfill D9 Dozer w/Foreman 1.00 EA 166.9975 Labour Foreman 0.3 35.08 1,054 Dozer Operator 1.0 35.31 4,243										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			14,447				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			324				
0120	Earthen Control Structure (Budget)	10,000.00	CY		46	1,632	5,558				7,190
					0.00	0.16	0.56				0.72
	No quantity information is available for this work.										
000020	Regrade Earthen Control Structure	10,000.00	CY		46	1,632	5,558				7,190
					0.00	0.16	0.56				0.72
	Prod=350.00 LCY/hour, 0.003MH/LCY, 350.00 LCY/MH, 46.23 hour										
	Spread Rockfill D9 Dozer	1.00	EA	155.53							
	Dozer Operator	1.0		35.31		1,632					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			5,558				
0130	Maintain Haul Roads	46.00	WK		6,486	238,826	291,758	13,800			544,384
					141.00	5,191.86	6,342.57	300.00			11,834.43
0010	Maintain Haul Roads	46.00	Week		6,486	238,826	291,758	13,800			544,384
					141.00	5,191.86	6,342.57	300.00			11,834.43
	Assume that the water tanker is needed 60% of the time, and that it hauls three loads per day when in operation.□										
	□										
	46 Weeks x 6 Days/Wk = 276 Days x 60% = 166										
	Days x 3 Loads x 8,000 Gal = 3,984,000 Gal□										
	□										
	3,984,000 Gal x \$0.003 / Gal = \$11,952 / 46										
	Weeks										
	Prod=0.02 week/hour, 141.000MH/week, 0.01 week/MH, 2,760.00 hour										
	Maintain Haul Roads	1.00	EA	192.2405							
	Grader Operator	1.0		43.69		120,584					
	Labour Foreman	0.3		35.08		24,205					
	Labourer	0.5		31.47		43,429					
	Highway Truck Driver	0.6		30.56		50,607					
	275 Hsp Grader (Cat 16G)	1.0		82.99			229,052				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			7,445				
	8000 Gallon Watertanker	0.6		33.37			55,261				
	Purchase Water from Local Rancher	46.0	Week	300.00				13,800			

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Cover Material (Gravelly Sands & Silts)	962,000.00	CY		12,084	481,814	1,451,709	2,400			1,935,922
					0.01	0.50	1.51	0.00			2.01
0010	Topsoil Stockpile 1 (North)	39,000.00	CY		335	12,785	46,168				58,953
					0.01	0.33	1.18				1.51
	<p>The material in this stockpile will be used for the Mine Shaft Aral, the Ore storage Area, and part of the West Shaft Access Road. Production is based on using a 992G loader to load 777 trucks, with a dozer 25% of the time to push material from the top of</p>										
000010	Mine Shaft Area	20,000.00	CY		132	4,689	20,890				25,580
					0.01	0.23	1.04				1.28
	<p>Roughly an average 3,000' haul. This area is relatively flat, and the cover is being spread 2' thick, so the production rate for spreading with the dozer is relatively high.</p> <p>Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 19.42 hour</p> <p><i>SP#1: Exc & Haul Cover w/992G & 3 ea 777</i> 1.00 EA 984.6175</p> <p>Dozer Operator 0.5 41.30 401</p> <p>Labour Foreman 0.3 35.08 170</p> <p>Loader Operator 1.0 35.31 686</p> <p>Off Hwy Truck Driver 3.0 30.56 1,780</p> <p>405 Hsp Bulldozer (Cat D9) 0.5 120.22 1,167</p> <p>13.5 CY Loader (Cat 992) 1.0 208.51 4,049</p> <p>95 Ton Off Hwy Truck 870 Hsp (Cat 777) 3.0 185.63 10,813</p> <p>3/4 Ton Pickup Truck 4x4 0.3 10.79 52</p> <p>Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 40.00 hour</p> <p><i>Spread Dirt 400 Hsp D9 Dozer</i> 1.00 EA 161.52</p> <p>Dozer Operator 1.0 41.30 1,652</p> <p>405 Hsp Bulldozer (Cat D9) 1.0 120.22 4,809</p>										
000020	Ore Storage Areas 1 & 2	6,000.00	CY		40	1,407	6,267				7,674
					0.01	0.23	1.04				1.28
	<p>Roughly an average 3,000' haul. This area is relatively flat, and the cover is being spread 2' thick, so the production rate for spreading with the dozer is relatively high.</p> <p>Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 5.83 hour</p> <p><i>SP#1: Exc & Haul Cover w/992G & 3 ea 777</i> 1.00 EA 984.6175</p> <p>Dozer Operator 0.5 41.30 120</p> <p>Labour Foreman 0.3 35.08 51</p> <p>Loader Operator 1.0 35.31 206</p> <p>Off Hwy Truck Driver 3.0 30.56 534</p> <p>405 Hsp Bulldozer (Cat D9) 0.5 120.22 350</p> <p>13.5 CY Loader (Cat 992) 1.0 208.51 1,215</p> <p>95 Ton Off Hwy Truck 870 Hsp (Cat 777) 3.0 185.63 3,244</p> <p>3/4 Ton Pickup Truck 4x4 0.3 10.79 16</p> <p>Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 12.00 hour</p> <p><i>Spread Dirt 400 Hsp D9 Dozer</i> 1.00 EA 161.52</p> <p>Dozer Operator 1.0 41.30 496</p> <p>405 Hsp Bulldozer (Cat D9) 1.0 120.22 1,443</p>										

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000030	West Shaft Access Road (Need 8,000 CY Top/OE)	13,000.00	CY		163	6,689	19,010				25,699
					0.01	0.51	1.46				1.98
	Roughly an average 2,000' haul. A good portion of this area is on slopes, so the production rate for spreading with the dozer has been reduced from the other areas.										
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 18.07 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		746					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			2,991				
	Prod=719.37 cy/hour, 0.007MH/cy, 137.02 cy/MH, 18.07 hour										
	631 Scraper Haul 2000-3000 ft	1.00	EA	917.0675							
	Scraper Operator	5.0		41.30		3,732					
	Labour Foreman	0.3		35.08		158					
	26 CY Scraper 450 hsp (Cat 631)	5.0		139.82			12,634				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			49				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 24.85 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		2,052					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			3,337				
0020	Topsoil Stockpile 2 (South)	284,000.00	CY		1,808	64,884	281,089				345,973
					0.01	0.23	0.99				1.22
000010	Pit #2	113,000.00	CY		637	23,141	97,666				120,807
					0.01	0.20	0.86				1.07
	Prod=1,030.00 CY/hour, 0.004MH/CY, 274.67 CY/MH, 109.71 hour										
	SP#2: Exc & Haul Cover w/992G & 2 ea 777	1.00	EA	768.4275							
	Dozer Operator	0.5		41.30		2,265					
	Labour Foreman	0.3		35.08		962					
	Loader Operator	1.0		35.31		3,874					
	Off Hwy Truck Driver	2.0		30.56		6,705					
	405 Hsp Bulldozer (Cat D9)	0.5		120.22			6,595				
	13.5 CY Loader (Cat 992)	1.0		208.51			22,875				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	2.0		185.63			40,730				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			296				
	Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 226.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		9,334					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			27,170				
000020	Pile #3	80,000.00	CY		569	20,408	88,371				108,779
					0.01	0.26	1.10				1.36
	Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 77.67 hour										
	SP#2: Exc & Haul Cover w/992G & 3 ea 777	1.00	EA	984.6175							
	Dozer Operator	0.5		41.30		1,604					
	Labour Foreman	0.3		35.08		681					
	Loader Operator	1.0		35.31		2,743					
	Off Hwy Truck Driver	3.0		30.56		7,121					
	405 Hsp Bulldozer (Cat D9)	0.5		120.22			4,669				
	13.5 CY Loader (Cat 992)	1.0		208.51			16,195				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			43,254				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			210				
	Prod=400.00 cy/hour, 0.003MH/cy, 400.00 cy/MH, 200.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		8,260					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			24,044				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000030	West Disturbance Area	20,000.00	CY		132	4,689	20,890				25,580
					0.01	0.23	1.04				1.28
	Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 19.42 hour										
	SP#: Exc & Haul Cover w/992G & 3 ea 777	1.00	EA	984.6175							
	Dozer Operator	0.5		41.30		401					
	Labour Foreman	0.3		35.08		170					
	Loader Operator	1.0		35.31		686					
	Off Hwy Truck Driver	3.0		30.56		1,780					
	405 Hsp Bulldozer (Cat D9)	0.5		120.22			1,167				
	13.5 CY Loader (Cat 992)	1.0		208.51			4,049				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			10,813				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			52				
	Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 40.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		1,652					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			4,809				
000040	Pile #6	22,000.00	CY		145	5,158	22,980				28,138
					0.01	0.23	1.04				1.28
	Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 21.36 hour										
	SP#: Exc & Haul Cover w/992G & 3 ea 777	1.00	EA	984.6175							
	Dozer Operator	0.5		41.30		441					
	Labour Foreman	0.3		35.08		187					
	Loader Operator	1.0		35.31		754					
	Off Hwy Truck Driver	3.0		30.56		1,958					
	405 Hsp Bulldozer (Cat D9)	0.5		120.22			1,284				
	13.5 CY Loader (Cat 992)	1.0		208.51			4,454				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			11,895				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			58				
	Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 44.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		1,817					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			5,290				
000050	Pit #1	49,000.00	CY		324	11,488	51,182				62,670
					0.01	0.23	1.04				1.28
	Prod=1,030.00 CY/hour, 0.005MH/CY, 216.84 CY/MH, 47.57 hour										
	SP#: Exc & Haul Cover w/992G & 3 ea 777	1.00	EA	984.6175							
	Dozer Operator	0.5		41.30		982					
	Labour Foreman	0.3		35.08		417					
	Loader Operator	1.0		35.31		1,680					
	Off Hwy Truck Driver	3.0		30.56		4,361					
	405 Hsp Bulldozer (Cat D9)	0.5		120.22			2,860				
	13.5 CY Loader (Cat 992)	1.0		208.51			9,919				
	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	3.0		185.63			26,493				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			128				
	Prod=500.00 cy/hour, 0.002MH/cy, 500.00 cy/MH, 98.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		4,047					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			11,782				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0030	Topsoil/Overburden Stockpile (North of Pile 5)	541,000.00	CY		7,722	317,750	924,457				1,242,207
					0.01	0.59	1.71				2.30
000010	Pile #4	401,000.00	CY		6,132	252,374	742,276				994,651
					0.02	0.63	1.85				2.48
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 557.43 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		23,022					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			92,255				
	Prod=719.37 cy/hour, 0.010MH/cy, 99.22 cy/MH, 557.43 hour										
	631 Scraper Haul 3900-4900 ft	1.00	EA	1279.3075							
	Scraper Operator	7.0		41.30		161,154					
	Labour Foreman	0.3		35.08		4,889					
	26 CY Scraper 450 hsp (Cat 631)	7.0		139.82			545,581				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			1,504				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 766.47 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		63,310					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			102,936				
000020	Pile #5	32,000.00	CY		356	14,628	40,575				55,203
					0.01	0.46	1.27				1.73
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 44.48 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		1,837					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			7,362				
	Prod=719.37 cy/hour, 0.006MH/cy, 169.26 cy/MH, 44.48 hour										
	631 Scraper Haul 1000-2000 ft	1.00	EA	735.9475							
	Scraper Operator	4.0		41.30		7,349					
	Labour Foreman	0.3		35.08		390					
	26 CY Scraper 450 hsp (Cat 631)	4.0		139.82			24,879				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			120				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 61.16 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		5,052					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			8,214				
000030	Pile #7	18,000.00	CY		200	8,228	22,823				31,052
					0.01	0.46	1.27				1.73
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 25.02 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		1,033					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			4,141				
	Prod=719.37 cy/hour, 0.006MH/cy, 169.26 cy/MH, 25.02 hour										
	631 Scraper Haul 1000-2000 ft	1.00	EA	735.9475							
	Scraper Operator	4.0		41.30		4,134					
	Labour Foreman	0.3		35.08		219					
	26 CY Scraper 450 hsp (Cat 631)	4.0		139.82			13,994				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			67				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 34.40 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		2,842					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			4,621				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000040	Crusher Stockpile Area	82,000.00	CY		912	37,485	103,974				141,458
					0.01	0.46	1.27				1.73
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 113.99 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		4,708					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			18,865				
	Prod=719.37 cy/hour, 0.006MH/cy, 169.26 cy/MH, 113.99 hour										
	631 Scraper Haul 1000-2000 ft	1.00	EA	735.9475							
	Scraper Operator	4.0		41.30		18,831					
	Labour Foreman	0.3		35.08		1,000					
	26 CY Scraper 450 hsp (Cat 631)	4.0		139.82			63,752				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			307				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 156.73 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		12,946					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			21,049				
000050	West Shaft Access Road	8,000.00	CY		122	5,035	14,809				19,843
					0.02	0.63	1.85				2.48
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 11.12 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		459					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			1,840				
	Prod=719.37 cy/hour, 0.010MH/cy, 99.22 cy/MH, 11.12 hour										
	631 Scraper Haul 3900-4900 ft	1.00	EA	1279.3075							
	Scraper Operator	7.0		41.30		3,215					
	Labour Foreman	0.3		35.08		98					
	26 CY Scraper 450 hsp (Cat 631)	7.0		139.82			10,884				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			30				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 15.29 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		1,263					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			2,054				
0040	Cover Material from Borrow Area (South)	98,000.00	CY		1,091	44,859	149,254				194,114
					0.01	0.46	1.52				1.98
000010	Exc, Haul & Spread on Pit 1	96,000.00	CY		1,064	43,716	145,941				189,657
					0.01	0.46	1.52				1.98
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 133.45 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		5,511					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			22,086				
	Prod=719.37 cy/hour, 0.009MH/cy, 115.10 cy/MH, 133.45 hour										
	631 Scraper Haul 2900-3900 ft	1.00	EA	1098.1875							
	Scraper Operator	6.0		41.30		33,069					
	Labour Foreman	0.3		35.08		1,170					
	26 CY Scraper 450 hsp (Cat 631)	6.0		139.82			111,954				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			360				
	Prod=1,000.00 cy/hour, 0.001MH/cy, 1,000.00 cy/MH, 96.00 hour										
	Spread Dirt 400 Hsp D9 Dozer	1.00	EA	161.52							
	Dozer Operator	1.0		41.30		3,965					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			11,541				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000020	Haul & Spread on Crusher Stockpile Area	2,000.00	CY		28	1,144	3,313				4,457
					0.01	0.57	1.66				2.23
	Prod=719.37 cy/hour, 0.001MH/cy, 719.37 cy/MH, 2.78 hour										
	Push 631 Scrapers	1.00	EA	206.8							
	Dozer Operator	1.0		41.30		115					
	570 Hsp Bulldozer (Cat D10)	1.0		165.50			460				
	Prod=719.37 cy/hour, 0.009MH/cy, 115.10 cy/MH, 2.78 hour										
	631 Scraper Haul 2900-3900 ft	1.00	EA	1098.1875							
	Scraper Operator	6.0		41.30		689					
	Labour Foreman	0.3		35.08		24					
	26 CY Scraper 450 hsp (Cat 631)	6.0		139.82			2,332				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			7				
	Prod=523.18 cy/hour, 0.004MH/cy, 261.59 cy/MH, 3.82 hour										
	Spread Dirt 250 Hsp D7 Dozer	2.00	EA	108.45							
	Dozer Operator	2.0		41.30		316					
	220 Hsp Bulldozer (Cat D7)	2.0		67.15			513				
0050	Maintain Haul Roads	8.00	WK		1,128	41,535	50,741	2,400			94,675
					141.00	5,191.86	6,342.57	300.00			11,834.43
0010	Maintain Haul Roads	8.00	Week		1,128	41,535	50,741	2,400			94,675
					141.00	5,191.86	6,342.57	300.00			11,834.43
	See note in the Maintain Haul Roads item above.										
	Prod=0.02 week/hour, 141.000MH/week, 0.01 week/MH, 480.00 hour										
	Maintain Haul Roads	1.00	EA	192.2405							
	Grader Operator	1.0		43.69		20,971					
	Labour Foreman	0.3		35.08		4,210					
	Labourer	0.5		31.47		7,553					
	Highway Truck Driver	0.6		30.56		8,801					
	275 Hsp Grader (Cat 16G)	1.0		82.99			39,835				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			1,295				
	8000 Gallon Watertanker	0.6		33.37			9,611				
	Purchase Water from Local Rancher	8.0	Week	300.00				2,400			
	Channel Protection	33,120.00	LF			1,258,968	442,130		3,488,628		5,189,726
						38.01	13.35		105.33		156.69
0010	Myer Gulch	316,550.00	SF			842,023	123,455				965,478
						2.66	0.39				3.05
000010	Install ArmorFlex	316,550.00	SF			842,023	123,455				965,478
						2.66	0.39				3.05
	ArmorFlex	316,550.0	SF	2.66		842,023					
	ArmorFlex	316,550.0	SF	0.39			123,455				
	ArmorFlex Cellular Concrete Blocks	316,550.0	SF	7.85					2,484,918		
0020	Pile 4 Top Surface Drainage Channel	45,000.00	SF			119,700	17,550				137,250
						2.66	0.39				3.05
000010	Install ArmorFlex	45,000.00	SF			119,700	17,550				137,250
						2.66	0.39				3.05
	ArmorFlex	45,000.0	SF	2.66		119,700					
	ArmorFlex	45,000.0	SF	0.39			17,550				
	ArmorFlex Cellular Concrete Blocks	45,000.0	SF	7.85					353,250		

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
0030	Pile Downchutes	58,500.00	SF			155,610	22,815				178,425
						2.66	0.39				3.05
000010	Install ArmorFlex	58,500.00	SF			155,610	22,815				178,425
						2.66	0.39				3.05
	ArmorFlex	58,500.0	SF	2.66		155,610					
	ArmorFlex	58,500.0	SF	0.39			22,815				
	ArmorFlex Cellular Concrete Blocks	58,500.0	SF	7.85					459,225		
0040	Pile Slope Channels (6" Thick Soil Cement)	55,111.00	SY			141,635	278,311				419,946
						2.57	5.05				7.62
000010	Soil Cement on Pile Slope Channels	55,111.00	SY			141,635	278,311				419,946
						2.57	5.05				7.62
	Based on 2009 MEANS pricing with adjustments for City Cost Indexes (80% of labor & equipment, and 100% of material for Albuquerque, NM), and for working on slopes instead of on the flat (1.5 times for labor & equipment, 1.0 for material).										
	Soil Cement	55,111.0	SY	2.57		141,635					
	Soil Cement	55,111.0	SY	5.05			278,311				
	Cement	55,111.0	SY	3.47					191,235		
Road Reclamation		14,000.00	LF		196	8,381	12,183				20,564
					0.01	0.60	0.87				1.47
0010	Ripping and Regrading Roadways	14,000.00	LF		196	8,381	12,183				20,564
					0.01	0.60	0.87				1.47
000010	Ripping Roadways w/Dozer	41,500.00	CY		47	1,889	4,910				6,799
					0.00	0.05	0.12				0.16
	Assume ripping the roadways 2' deep. 14,000 LF x 40' Wide = 560,000 SF 560,000 SF x 2' Deep / 27 = 41,480 CY USE 41,500 CY										
	Assume the seismic velocity is 4,000 Feet Per Second, which puts it more or less in the middle of the ranges for clay, glacial										
	Prod=1,100.00 cy/hour, 0.001MH/cy, 880.00 cy/MH, 37.73 hour										
	Ripping with 400 Hsp D9 Dozer	1.00	EA	180.2075							
	Dozer Operator	1.0		41.30		1,558					
	Labour Foreman	0.3		35.08		331					
	405 Hsp Bulldozer (Cat D9)	1.0		120.22			4,536				
	Ripper Attachment D9	1.0		7.22			272				
	3/4 Ton Pickup Truck 4x4	0.3		10.79			102				
000020	Regrade Roadways	62,200.00	SY		149	6,492	7,274				13,765
					0.00	0.10	0.12				0.22
	Prod=418.60 sy/hour, 0.002MH/sy, 418.60 sy/MH, 148.59 hour										
	Rough Grade Service Rd (145 Hsp Cat 140 Grad	1.00	EA	92.64							
	Grader Operator	1.0		43.69		6,492					
	140 Hsp Grader (Cat 140)	1.0		48.95			7,274				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Revegetation	320.00	AC		200	85,754	73,124		192,000		350,878
					0.63	267.98	228.51		600.00		1,096.49
0010	Revegetation	320.00	AC		200	85,754	73,124				158,878
					0.63	267.98	228.51				496.49
000010	Rough Grade Site	320.00	Acre		200	8,394	13,710				22,104
					0.63	26.23	42.84				69.07
	Prod=4.00 acre/hour, 0.625MH/acre, 1.60 acre/MH, 80.00 hour										
	Rough Grade Site	2.00	EA	138.1475							
	Grader Operator	2.0		43.69		6,990					
	Labour Foreman	0.5		35.08		1,403					
	275 Hsp Grader (Cat 16G)	2.0		82.99			13,278				
	3/4 Ton Pickup Truck 4x4	0.5		10.79			432				
000020	Seed & Mulch	320.00	Acre			77,360	59,414				136,774
						241.75	185.67				427.42
0010	Seeding (11 to 15 LB/AC)	320.00	AC			66,880	49,600				116,480
						209.00	155.00				364.00
	Seeding with a Southwest Native Grass Mix at 11 to 15 lb/acre. □										
	□ Mixture Varieties Included: Contains Blue Grama, Sideoats Grama, Plains Bristlegrass, Alkali Sacaton, Indian Ricegrass, Spike Muhly, and Sand Dropseed. *Note: Varieties included and percent										
	Seeding	320.0	AC	209.00		66,880					
	Seeding	320.0	AC	155.00			49,600				
	Southwest Native Grass Mixture	320.0	AC	300.00					96,000		
0020	Mulch with Straw (2 Tons/Acre)	320.00	AC			10,480	9,814				20,294
						32.75	30.67				63.42
	Mulching	320.0	AC	32.75		10,480					
	Mulching	320.0	AC	30.67			9,814				
	Bales of Straw (70 per Acre)	320.0	AC	300.00					96,000		
	3/4 Ton Pickup Truck 4x4	2.0		12.69			2,030				

Item	Description	Quantity	UOM	Rate	ManHrs	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
000020	Seed & Mulch	320.00	Acre			77,360	59,414				136,774
						241.75	185.67				427.42
0010	Seeding (11 to 15 LB/AC)	320.00	AC			66,880	49,600				116,480
						209.00	155.00				364.00
	Seeding with a Southwest Native Grass Mix at 11 to 15 lb/acre. □										
	□										
	Mixture Varieties Included: Contains Blue Grama, Sideoats Grama, Plains Bristlegrass, Alkali Sacaton, Indian Ricegrass, Spike Muhly, and Sand Dropseed. *Note: Varieties included and percent										
	Seeding	320.0	AC	209.00		66,880					
	Seeding	320.0	AC	155.00			49,600				
	Southwest Native Grass Mixture	320.0	AC	300.00					96,000		
0020	Mulch with Straw (2 Tons/Acre)	320.00	AC			10,480	9,814				20,294
						32.75	30.67				63.42
	Mulching	320.0	AC	32.75		10,480					
	Mulching	320.0	AC	30.67			9,814				
	Bales of Straw (70 per Acre)	320.0	AC	300.00					96,000		

Item Cost Summary

Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1

Currency: United States

Item	Description	Quantity	UOM	ManHr	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
St Anthony Closeout Plan										
Mobilization and Preparation Work										
0010	Mobilization and Preparation Work	1.00	LS	9,000 <i>9,000.00</i>	414,840 <i>414,840.00</i>	248,460 <i>248,460.00</i>			365,000 <i>365,000.00</i>	1,028,300 <i>1,028,300.00</i>
0020	Erosion Control Devices	1.00	LS	1,343 <i>1,342.93</i>	47,577 <i>47,576.81</i>	11,912 <i>11,911.83</i>	19,670 <i>19,670.00</i>			79,159 <i>79,158.64</i>
0030	Relocate 14.4kV Distribution Line	1,700.00	LF		10,965 <i>6.45</i>	1,411 <i>0.83</i>		15,453 <i>9.09</i>		27,829 <i>16.37</i>
0040	Break Concrete Slabs	2,500.00	CY	156 <i>0.06</i>	6,558 <i>2.62</i>	10,812 <i>4.32</i>				17,370 <i>6.95</i>
0050	Access Road Improvements	42,240.00	SY	450 <i>0.01</i>	19,105 <i>0.45</i>	14,020 <i>0.33</i>	3,000 <i>0.07</i>			36,125 <i>0.86</i>
	Section (Mobilization and Preparation Work) Totals:	1.00	LS	10,949 <i>10,949.18</i>	499,044 <i>499,044.06</i>	286,615 <i>286,614.77</i>	22,670 <i>22,670.00</i>	15,453 <i>15,453.00</i>	365,000 <i>365,000.00</i>	1,188,782 <i>1,188,781.83</i>
Regrading (Sandstone - Except Piles 1 & 2)										
0010	Regrade Pile 1 & 2 (Shale)	1,644,000.00	CY	13,193 <i>0.01</i>	444,626 <i>0.27</i>	2,051,758 <i>1.25</i>				2,496,384 <i>1.52</i>
0020	Regrade Pile 3 (Sandstone)	473,000.00	CY	3,710 <i>0.01</i>	125,992 <i>0.27</i>	555,874 <i>1.18</i>				681,866 <i>1.44</i>
0030	Regrade Pile 4 (Sandstone)	4,185,000.00	CY	43,436 <i>0.01</i>	1,460,011 <i>0.35</i>	5,758,858 <i>1.38</i>				7,218,869 <i>1.72</i>
0040	Regrade Pile 5 (Sandstone)	186,000.00	CY	1,550 <i>0.01</i>	52,626 <i>0.28</i>	157,931 <i>0.85</i>				210,557 <i>1.13</i>
0050	Regrade Pile 6 (Sandstone)	101,000.00	CY	875 <i>0.01</i>	29,718 <i>0.29</i>	89,185 <i>0.88</i>				118,903 <i>1.18</i>
0060	Regrade Pile 7 (Sandstone)	31,000.00	CY	237 <i>0.01</i>	8,049 <i>0.26</i>	24,154 <i>0.78</i>				32,203 <i>1.04</i>
0070	Regrade Crusher/Stockpile Area (Sandstone)	102,000.00	CY	589 <i>0.01</i>	20,781 <i>0.20</i>	57,947 <i>0.57</i>				78,727 <i>0.77</i>
0080	Regrade West Disturbance Area (Sandstone)	83,000.00	CY	679 <i>0.01</i>	24,077 <i>0.29</i>	107,011 <i>1.29</i>				131,087 <i>1.58</i>
0090	Regrade West Shaft Area (Sandstone)	3,000.00	CY	19 <i>0.01</i>	685 <i>0.23</i>	2,332 <i>0.78</i>				3,017 <i>1.01</i>
0100	Regrade Ore Storage Areas 1 & 2 (Sandstone)	3,000.00	CY	22 <i>0.01</i>	741 <i>0.25</i>	3,525 <i>1.17</i>				4,266 <i>1.42</i>
0110	Regrade West Shaft Access Road (Sandstone)	26,000.00	CY	150	5,297	14,771				20,068

Item Cost Summary

Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1

Currency: United States

Item	Description	Quantity	UOM	ManHr	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
				0.01	0.20	0.57				0.77
0120	Earthen Control Structure (Budget)	10,000.00	CY	46	1,632	5,558				7,190
				0.00	0.16	0.56				0.72
0130	Maintain Haul Roads	46.00	WK	6,486	238,826	291,758	13,800			544,384
	Section (Regrading (Sandstone - Except Piles 1 & 2))			141.00	5,191.86	6,342.57	300.00			11,834.43
	Totals:	6,847,000.00	CY	70,992	2,413,059	9,120,662	13,800		0	11,547,521
				0.01	0.35	1.33	0.00	0.00	0.00	1.69
Cover Material (Gravelly Sands & Silts)										
0010	Topsoil Stockpile 1 (North)	39,000.00	CY	335	12,785	46,168				58,953
				0.01	0.33	1.18				1.51
0020	Topsoil Stockpile 2 (South)	284,000.00	CY	1,808	64,884	281,089				345,973
				0.01	0.23	0.99				1.22
0030	Topsoil/Overburden Stockpile (North of Pile 5)	541,000.00	CY	7,722	317,750	924,457				1,242,207
				0.01	0.59	1.71				2.30
0040	Cover Material from Borrow Area (South)	98,000.00	CY	1,091	44,859	149,254				194,114
				0.01	0.46	1.52				1.98
0050	Maintain Haul Roads	8.00	WK	1,128	41,535	50,741	2,400			94,675
	Section (Cover Material (Gravelly Sands & Silts))			141.00	5,191.86	6,342.57	300.00			11,834.43
	Totals:	962,000.00	CY	12,084	481,814	1,451,709	2,400		0	1,935,922
				0.01	0.50	1.51	0.00	0.00	0.00	2.01
Channel Protection										
0010	Myer Gulch	316,550.00	SF		842,023	123,455		2,484,918		3,450,395
					2.66	0.39		7.85		10.90
0020	Pile 4 Top Surface Drainage Channel	45,000.00	SF		119,700	17,550		353,250		490,500
					2.66	0.39		7.85		10.90
0030	Pile Downchutes	58,500.00	SF		155,610	22,815		459,225		637,650
					2.66	0.39		7.85		10.90
0040	Pile Slope Channels (6" Thick Soil Cement)	55,111.00	SY		141,635	278,311		191,235		611,181
					2.57	5.05		3.47		11.09
	Section (Channel Protection) Totals:	33,120.00	LF	0	1,258,968	442,130		3,488,628	0	5,189,726
				0.00	38.01	13.35	0.00	105.33	0.00	156.69
Road Reclamation										
0010	Ripping and Regrading Roadways	14,000.00	LF	196	8,381	12,183				20,564
				0.01	0.60	0.87				1.47

Item Cost Summary

Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1

Currency: United States

Item	Description	Quantity	UOM	ManHr	Labor	Equip	Job Mat	Perm Mat	Sub/Plug	Total Cost
	Section (Road Reclamation) Totals:	14,000.00	LF	196	8,381	12,183			0	20,564
				0.01	0.60	0.87	0.00	0.00	0.00	1.47
	Revegetation									
0010	Revegetation	320.00	AC	200	85,754	73,124		192,000		350,878
				0.63	267.98	228.51		600.00		1,096.49
	Section (Revegation) Totals:	320.00	AC	200	85,754	73,124		192,000	0	350,878
				0.63	267.98	228.51	0.00	600.00	0.00	1,096.49
	Section (St Anthony Closeout Plan) Totals:	7,809,000.00	CY	94,421	4,747,020	11,386,423	38,870	3,696,081	365,000	20,233,394
				0.01	0.61	1.46	0.00	0.47	0.05	2.59
	Grand Totals:	1.00	LS	94,421	4,747,020	11,386,423	38,870	3,696,081	365,000	20,233,394
					4,747,020.14	11,386,422.85	38,870.00	3,696,080.67	365,000.00	20,233,393.66

Labor Hour Summary				
Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1				
Currency: United States				
Labor Classification & Description				
Code	Description	Labor Hours	Rate	Total Cost
200000	Equipment Operators			
Crane110	Crane Operator	1,500.00	43.69	65,535.00
Backhoe100	Backhoe Operator	8,142.13	43.69	355,729.57
Grader100	Grader Operator	3,698.59	43.69	161,591.42
Dozer100	Dozer Operator	4,003.83	41.30	165,358.05
Scraper100	Scraper Operator	5,788.40	41.30	239,060.84
	Sub-Total	23,132.94		987,274.89
300000	Labourers			
Labour110	Labour Foreman	5,912.69	35.08	207,417.01
Labour130	Labourer	6,081.76	31.47	191,393.03
	Sub-Total	11,994.45		398,810.04
312300	Equipment Operators			
Operator410	Loader Operator	417.94	35.31	14,757.29
Operator420	Dozer Operator	15,744.57	35.31	555,940.87
Operator435	Oiler	7,681.39	30.79	236,510.13
	Sub-Total	23,843.90		807,208.29
3000000	Truck Drivers			
Truck310	Highway Truck Driver	5,094.00	42.83	218,168.64
OffHwy100	Off Hwy Truck Driver	25,856.02	30.56	790,160.01
	Sub-Total	30,950.02		1,008,328.65
4000000	Mechanics			
Mechanic100	Mechanic Foreman	1,500.00	44.69	67,035.00
Mechanic200	Heavy Duty Mechanic	3,000.00	43.69	131,070.00
	Sub-Total	4,500.00		198,105.00
	Totals:	94,421.31		3,399,726.87
General Costs				
LABOR	ArmorFlex	N/A	N/A	1,117,333.00
LABOR	Mulching	N/A	N/A	10,480.00
LABOR	Relocate 14.4kV Distribution Line	N/A	N/A	10,965.00
LABOR	Seeding	N/A	N/A	66,880.00
LABOR	Soil Cement	N/A	N/A	141,635.27
	Sub-Total			1,347,293.27
	Totals:	94,421.31		4,747,020.14

Equipment Hour Summary				
Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1				
Currency: United States				
Equipment Classification & Description				
Code	Description	Equip Hours	Average Rate	Total Cost
810000	Earthmoving Equipment			
D7	220 Hsp Bulldozer (Cat D7)	2,125.46	67.15	142,724.87
D9	405 Hsp Bulldozer (Cat D9)	16,688.79	120.22	2,006,325.81
D10	570 Hsp Bulldozer (Cat D10)	934.15	165.50	154,601.94
RipperD9	Ripper Attachment D9	37.73	7.22	272.39
992	13.5 CY Loader (Cat 992)	417.94	208.51	87,143.66
140	140 Hsp Grader (Cat 140)	148.59	48.95	7,273.51
14G	200 Hsp Grader (Cat 14G)	150.00	69.82	10,473.00
16G	275 Hsp Grader (Cat 16G)	3,400.00	82.99	282,166.00
330	2.0 CY Backhoe (Cat 330)	125.00	60.25	7,531.25
680	1.7 CY Backhoe Loader (Case680)	335.73	27.12	9,105.10
Shovel5130	12.0 CY Shovel (Cat 5130)	7,681.39	301.04	2,312,406.95
777	95 Ton Off Hwy Truck 870 Hsp (Cat 777)	25,168.96	185.63	4,672,114.51
631	26 CY Scraper 450 hsp (Cat 631)	5,788.40	139.82	809,333.83
	Sub-Total	63,002.14		10,501,472.83
850000	Utility Equipment			
Compressor185CFM	185 CFM Diesel Compressor	1,500.00	12.59	18,885.00
	Sub-Total	1,500.00		18,885.00
860000	Hoisting Equipment			
HydraulicCrane40T	40 Ton Hydraulic Crane (Grove700)	1,500.00	46.19	69,285.00
	Sub-Total	1,500.00		69,285.00
870000	Foundation & Marine Equipment			
HoeRam20	Hydraulic Hoe Ram	125.00	23.55	2,943.75
	Sub-Total	125.00		2,943.75
890000	Service & Maintenance Equipment			
Pickup35	1/2 Ton Pickup Truck 4x4	335.73	8.36	2,806.73
Pickup60	3/4 Ton Pickup Truck 4x4	5,576.95	10.79	60,175.31
Mechanic1	1- Ton Mechanic Truck	1,500.00	17.82	26,730.00
Water10	1000 Gallon Watertruck	150.00	18.25	2,737.50
Water40	8000 Gallon Watertanker	1,944.00	33.37	64,871.28
Lowboy80	80 Ton Lowboy	3,000.00	44.52	133,560.00
	Sub-Total	12,506.69		290,880.82
	Totals:	78,633.83		10,883,467.40
General Costs				
EQUIP	ArmorFlex	N/A	N/A	163,819.50
EQUIP	Mulching	N/A	N/A	9,814.40
EQUIP	Relocate 14.4kV Distribution Line	N/A	N/A	1,411.00
EQUIP	Seeding	N/A	N/A	49,600.00
EQUIP	Soil Cement	N/A	N/A	278,310.55
	Sub-Total			502,955.45
	Totals:	78,633.83		11,386,422.85

Material Quantity Summary					
Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1					
Currency: United States					
Material Classification & Description					
Code	Description	Quantity	UOM	Rate	Total Adj Cost
3125000					
SiltFence120	Medium Duty Silt Fence	30,000.00	ft	0.48	14,400.00
Sediment110	Straw Bales	1,000.00	ea	4.22	4,220.00
Sediment120	Stakes for Straw Bales (2" x 2" x 4 ft)	1,000.00	ea	1.05	1,050.00
	Sub-Total	32,000.00			19,670.00
				Totals:	19,670.00
General Costs					
MAT	14.4kV Distribution Line	1,700.00	LF	9.09	15,453.00
MAT	ArmorFlex Cellular Concrete Blocks	420,050.00	SF	7.85	3,297,392.50
MAT	Bales of Straw (70 per Acre)	320.00	AC	300.00	96,000.00
MAT	Cement	55,111.00	SY	3.47	191,235.17
MAT	Purchase Water from Local Rancher	64.00	Week	300.00	19,200.00
MAT	Southwest Native Grass Mixture	320.00	AC	300.00	96,000.00
	Sub-Total				3,715,280.67
	Totals:				3,734,950.67

Subcontract Quantity Summary**Estimate: St Anthony Closeout Plan - 2010-07-30 Concept Level R1**

Currency: United States

Subcontract Classification & Description					
Code	Description	Quantity	UOM	Rate	Total Cost
				Total:	0.00