Incoming
C/015/0018

Bonding Calculations
Deer Creek Mine - including Rilda Canyon Portal Facilities

Deer Creek Mine Facilities		
Direct Costs		
Subtotal Demolition,	$841,207.00	
Subtotal Backfilling and Grading	$746,891.00	
Subtotal Revegetation	$235,117.00	
Direct Costs Total	$1,823,215.00	
Indirect Costs		
Mob/Demob	$182,322.00	10.0%
Contingency	$91,161.00	5.0%
Engineering Redesign	$45,580.00	2.5%
Main Office Expense	$123,979.00	6.8%
Project Mainagement Fee	$45,580.00	2.5%
Indirect Costs Totals	$488,622.00	26.8%
Total Cost in 2003 Dollars	**$2,311,837.00**	
Escalation factor		2.82%
Number of years		2
Escalation	$132,226.00	
Deer Creek Mine Facilities Total Reclamation Cost 2005 Dollars	**$2,444,063.00**	
Deer Creek Mine - Rilda Portal Facilities		
Direct Costs		
Subtotal Demolition,	$233,793.00	
Subtotal Earthwork	$621,075.00	
Subtotal Revegetation	$65,201.00	
Direct Costs Total	$920,069.00	
Indirect Costs		
Mob/Demob	$92,006.90	10.0%
Contingency	$46,003.45	5.0%
Engineering Redesign	$23,001.73	2.5%
Main Office Expense	$62,564.69	6.8%
Project Mainagement Fee	$23,001.73	2.5%
Indirect Costs Totals	$246,578.49	26.8%
Rilda Canyon Portal Facilities Total Cost in 2005 Dollars	**$1,166,647.49**	
Total Deer Creek Mine Complex Reclamation Costs	**$3,610,710.49**	
Escalation factor		4.44%
Number of years		3
Escalation	$502,617.00	
Reclamation Cost 2008	**$4,113,327.49**	
Bond Amount (rounded to nearest $1,000)	**$4,113,000.00**	

FILE IN Expandable 03/14/2007
Refer to Record No. 0016
in C015/0018, 2007, INCOMING
for additional information

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Deer Creek Mine:
C/015/018

Reclamation Bond Estimates

Demolition

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fuel Tank Fan 1A																			657
	Redwood Water Tank 1B																			1301
	Fan 1C																			4150
	Water Storage Tank 1D																			11612
	Main Office Bathhouse 1E																			72970
	Water Treatment Plant 1F																			3656
	Skimmer Building 1G																			3656
	High Pressure Pump Building 1H																			2768
	Power Installations 1I																			3287
	ROM Belt Line 1 J																			22755
	Parking Garage 1K																			11377
	Storage Shed 1L																			11993
	Security GateFence 1O																			2002
	Salt Storage Shed Trash Hopper 1N																			4451
	Oil Fuel Storage 1O																			3196
	Tire Dock 1P																			14898
	Septic Tanks 1R																			4034
	Storage Docks 1S																			26450
	Rock Dust Silo 1T																			5702
	Reclaim Tunnel 1U																			1885
	Retaining Walls Tipple 1V																			6369
	Tipple 1W																			62591
	Beltline C1 C2 1X																			11962
	Transfer Tower C1 C2 1Y																			4136
	Misc Culverts 1 Z																			18748
	Misc Concrete 1AA																			109110
	Guard Rail 1AB																			3742
	SedPond 1AC																			9191
	Portals 2 A																			20800
	Asphalt Removal 3 A																			129893
	Riprap 4A																			172000
	Total																			761342

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fuel Tank Fan 1A																			
	Structure's Demolition Cost													0.25	1	day		0.25	day	159
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.25	1	day		0.25	day	28
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									2	1	hr		2	hr	99
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									2	1	hr		2	hr	77
		CLAB	Clab	$38.50	HR									2	1	hr		2	hr	107
		Foreman Average, Outside	Foreman	$53.65	HR															
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage													0.25	1	day		0.25	day	102
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									2	1	hr		2	hr	78
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR													1	ton	7
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON								1			ton				
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			657
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			657
	Total																			

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Redwood Water Tank 1B																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.5	1	day		0.5	day	317
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									0.5	1	day		0.5	day	36
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		CLAB	Clab	$38.50	HR									4	1	hr		4	hr	154
		Foreman Average, Outside	Foreman	$53.65	HR									4	1	hr		4	hr	215
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	1	day		0.5	day	204
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	1	hr		4	hr	157
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							3				ton		3	ton	21
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			1301
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1301

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fan 1C																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	2	day		2	day	1269
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									1	1	day		1	day	72
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	2	hr		16	hr	790
		CLAB	Clab	$38.50	HR									8	2	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							20				ton		20	ton	140
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			4150
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4150

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Water Storage Tank 1D																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.5	1	day		0.5	day	317
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									0.5	1	day		0.5	day	36
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		Crane Mounted 25 ton	01590 600 2500	583.41	/day									4.5	1	day		4.5	day	2625
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									36	1	hr		36	hr	1777
		CLAB	Clab	$38.50	HR									24	2	hr		48	hr	1848
		Foreman Average, Outside	Foreman	$53.65	HR									36	1	hr		36	hr	1931
		Torch Equipment	01590 400 6350	2.78	/HR									24	1	hr		24	hr	67
		Torch Operating	01590 400 6360	4.95	/HR									24	1	hr		24	hr	119
		CLAB	Clab	$38.50	HR									24	1	hr		24	hr	924
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							150				ton		150	ton	1050
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			11812
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11812

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Office Bathhouse 1E																			
	Structure's Demolition Cost																			
		300 H. P. (D8)	01590 200 4310	985.16	/day									15.5	1	day		15.5	day	15270
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									124	1	hr		124	hr	6119
		Excavator 1.5 CY	01590 200 0200	634.63	/day									15.5	1	day		15.5	day	9837
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									15.5	1	day		15.5	day	1754
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									124	1	hr		124	hr	6119
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									6	1	day		6	day	6543
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									48	1	hr		48	hr	2369
		Off highway 50 ton	01590 200 5610	1020.56	/day									6	1	day		6	day	6123
		Truck Driver, Heavy	Trhv	$39.15	HR									48	1	hr		48	hr	1879
		CLAB	Clab	$38.50	HR									124	2	hr		248	hr	9548
		Foreman Average, Outside	Foreman	$53.65	HR									124	1	hr		124	hr	6653
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON								5			ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			72970
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
																				72970
	Total																			

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Water Treatment Plant 1F																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		300 H. P. (D8)	01590 200 4310	985.16	/day									1	1	day		1	day	985
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									8	1	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	1	day		0.5	day	204
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	1	hr		4	hr	157
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3656
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3656

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Skimmer Building 1G																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		300 H. P. (D8)	01590 200 4310	985.16	/day									1	1	day		1	day	985
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									8	1	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	1	day		0.5	day	204
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	1	hr		4	hr	157
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3656
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3656

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	High Pressure Pump Building 1H																			
	Structure's Demolition Cost																			
		300 H. P. (D8)	01590 200 4310	985.16	/day									0.5	1	day		0.5	day	493
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.5	1	day		0.5	day	317
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									0.5	1	day		0.5	day	57
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									0.5	1	day		0.5	day	545
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		CLAB	Clab	$38.50	HR									4	1	hr		4	hr	154
		Foreman Average, Outside	Foreman	$53.65	HR									4	1	hr		4	hr	215
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	1	day		0.5	day	204
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	1	hr		4	hr	157
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			2768
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			2768

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Power Installations 1I																			
	Structure's Demolition Cost																			
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									1	1	day		1	day	1091
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									8	2	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3287
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3287

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	ROM Belt Line 1 J																			
	Structure's Demolition Cost																			
		Crane Mounted 55 ton	01590 600 2800	999.76	/day									3	1	day		3	day	2999
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		Excavator 1.5 CY	01590 200 0200	634.83	/day									6	1	day		6	day	3808
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									48	1	hr		48	hr	2369
		Crane Mounted 25 ton	01590 600 2500	583.41	/day									3	1	day		3	day	1750
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		CLAB	Clab	$38.50	HR									24	2	hr		48	hr	1848
		Foreman Average, Outside	Foreman	$53.65	HR									48	1	hr		48	hr	2575
		Torch Equipment	01590 400 6350	2.78	/HR									24	1	hr		24	hr	67
		Torch Operating	01590 400 6360	4.95	/HR									24	1	hr		24	hr	119
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									6	1	day		6	day	2448
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									48	1	hr		48	hr	1879
	Disposal Cost Non Steel	Nielson Construction	Nelson Con.	7	/TON							75				ton		75	ton	525
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			22755
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			22755

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Parking Garage 1K																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Excavator 1.5 CY	01590 200 0200	634.63	/day									5	1	day		5	day	3173
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									5	1	day		5	day	361
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									40	1	hr		40	hr	1974
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									1	1	day		1	day	1091
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									8	2	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Neilson Construction	Neilson Con.	7	/TON							20				ton		20	ton	140
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			11377
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11377

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Storage Shed 1L																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Excavator 1.5 CY	01590 200 0200	634.63	/day									5	1	day		5	day	3173
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									5	1	day		5	day	361
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									40	1	hr		40	hr	1974
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									1	1	day		1	day	1091
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									8	4	hr		32	hr	1232
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							20				ton		20	ton	140
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			11993
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11993

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Shop Warehouse 1M																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									7	1	day		7	day	4442
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									7	1	day		7	day	792
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									56	1	hr		56	hr	2764
		Excavator 1.5 CY	01590 200 0200	634.63	/day									3	1	day		3	day	1904
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									3	1	day		3	day	216
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									1	1	day		1	day	1091
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									24	4	hr		96	hr	3696
		Foreman Average, Outside	Foreman	$53.65	HR									24	1	hr		24	hr	1288
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							314				ton		314	ton	2198
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			22025
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
																				22025
	Total																			

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Salt Storage Shed Trash Hopper 1N																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									2	1	day		2	day	1269
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									2	1	day		2	day	144
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									16	1	hr		16	hr	790
		CLAB	Clab	$38.50	HR									16	1	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									16	1	hr		16	hr	858
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	1	day		0.5	day	204
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	1	hr		4	hr	157
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							59				ton		59	ton	413
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			4451
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4451

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Oil Fuel Storage 1O																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.5	1	day		0.5	day	317
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									0.5	1	day		0.5	day	36
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		Crane Mounted 25 ton	01590 600 2500	583.41	/day									1	1	day		1	day	583
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									8	1	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trftv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							30				ton		30	ton	210
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			3196
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3196

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Tire Dock 1P																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									3	1	day		3	day	1904
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									3	1	day		3	day	216
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									3	1	day		3	day	3272
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		Off highway 50 ton	01590 200 5610	1020.56	/day									3	1	day		3	day	3062
		Truck Driver, Heavy	Trhv	$39.15	HR									24	1	hr		24	hr	940
		CLAB	Clab	$38.50	HR									24	2	hr		48	hr	1848
		Foreman Average, Outside	Foreman	$53.65	HR									24	1	hr		24	hr	1288
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			14898
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			14898

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Security GateFence 1Q																			
	Structure's Demolition Cost																			
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									0.5	1	day		0.5	day	545
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		CLAB	Clab	$38.50	HR									8	2	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.25	1	day		0.25	day	102
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									2	1	hr		2	hr	78
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			2002
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			2002

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Septic Tanks 1R																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2880	72.15	/day									1	1	day		1	day	72
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									8	1	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							20				ton		20	ton	140
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			4034
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
																				4034
	Total																			

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Storage Docks 1S																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									5.5	1	day		5.5	day	3490
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									4.5	1	day		4.5	day	325
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									44	1	hr		44	hr	2171
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									5.5	1	day		5.5	day	5998
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									44	1	hr		44	hr	2171
		Off highway 50 ton	01590 200 5610	1020.56	/day									5.5	1	day		5.5	day	5613
		Truck Driver, Heavy	Trhv	$39.15	HR									44	1	hr		44	hr	1723
		CLAB	Clab	$38.50	HR									44	1	hr		44	hr	1694
		Foreman Average, Outside	Foreman	$53.65	HR									44	1	hr		44	hr	2361
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							10				ton	-	10	ton	70
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			26450
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			26450

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Rock Dust Silo 1T																			
	Structure's Demolition Cost																			
		Crane Mounted 55 ton	01590 600 2600	999.76	/day									1	1	day		1	day	1000
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									1	1	day		1	day	72
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									8	2	hr		16	hr	616
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							15				ton		15	ton	105
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			5702
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			5702

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Reclaim Tunnel 1U																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									0.5	1	day		0.5	day	317
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									0.5	1	day		0.5	day	57
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									4	1	hr		4	hr	197
		CLAB	Clab	$38.50	HR									4	2	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									4	1	hr		4	hr	215
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									0.5	2	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									4	2	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							10				ton		10	ton	70
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			1885
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1885

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Retaining Walls Tipple 1V																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1.5	1	day		1.5	day	952
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									1.5	1	day		1.5	day	108
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									12	1	hr		12	hr	592
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									1	1	day		1	day	1091
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Off highway 50 ton	01590 200 5610	1020.56	/day									1	1	day		1	day	1021
		Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
		CLAB	Clab	$38.50	HR									12	1	hr		12	hr	462
		Foreman Average, Outside	Foreman	$53.65	HR									12	1	hr		12	hr	644
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							10				ton		10	ton	70
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			6369
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			6369

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Tipple 1W																			
	Structure's Demolition Cost																			
		Crane Mounted 55 ton	01590 600 2600	999.76	/day									10	1	day		10	day	9998
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									80	1	hr		80	hr	3948
		Excavator 1.5 CY	01590 200 0200	634.63	/day									10	1	day		10	day	6346
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									10	1	day		10	day	1132
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									80	1	hr		80	hr	3948
		Excavator 1.5 CY	01590 200 0200	634.63	/day									10	1	day		10	day	6346
		Attachment Grapples	01590 200 0345	100.05	/day									10	1	day		10	day	1001
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									80	1	hr		80	hr	3948
		CLAB	Clab	$38.50	HR									80	4	hr		320	hr	12320
		Foreman Average, Outside	Foreman	$53.65	HR									80	1	hr		80	hr	4292
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									10	1	day	-	10	day	4080
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									80	1	hr		80	hr	3132
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							300				ton		300	ton	2100
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			62591
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			62591

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Beltline C1 C2 1X																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									3.5	1	day		3.5	day	2221
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									3.5	1	day		3.5	day	396
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									28	1	hr		28	hr	1382
		CLAB	Clab	$38.50	HR									28	4	hr		112	hr	4312
		Foreman Average, Outside	Foreman	$53.65	HR									28	1	hr		28	hr	1502
		Torch Equipment	01590 400 6350	2.78	/HR									28	1	hr		28	hr	78
		Torch Operating	01590 400 6360	4.95	/HR									28	1	hr		28	hr	139
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									2	1	day		2	day	816
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									16	1	hr		16	hr	626
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							70				ton		70	ton	490
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			11962
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11962

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Transfer Tower C1 C2 1Y																			
	Structure's Demolition Cost																			
		Crane Mounted 55 ton	01590 600 2600	999.76	/day									1	1	day		1	day	1000
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		Excavator 1.5 CY	01590 200 0200	634.63	/day									1	1	day		1	day	635
		Attachment Bucket Thumb	01590 200 0342	113.18	/day									1	1	day		1	day	113
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									4	2	hr		8	hr	308
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							20				ton		20	ton	140
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			4136
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
																				4136
	Total																			

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Misc Culverts 1 Z																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									7	1	day		7	day	4442
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									7	1	day		7	day	505
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									54	1	hr		54	hr	2665
		CLAB	Clab	$38.50	HR									54	2	hr		108	hr	4158
		Foreman Average, Outside	Foreman	$53.65	HR									54	1	hr		54	hr	2897
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									2	1	day		2	day	816
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									16	1	hr		16	hr	626
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							377				ton		377	ton	2639
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			18748
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			18748

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Misc Concrete 1AA																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	634.63	/day									40	1	day		40	day	25385
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									40	1	day		40	day	2886
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									320	1	hr		320	hr	15792
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									5	1	day		5	day	5453
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									40	1	hr		40	hr	1974
		CLAB	Clab	$38.50	HR									320	2	hr		640	hr	24640
		Foreman Average, Outside	Foreman	$53.65	HR									320	1	hr		320	hr	17168
		Torch Equipment	01590 400 6350	2.78	/HR									320	1	hr		320	hr	890
		Torch Operating	01590 400 6360	4.95	/HR									320	1	hr		320	hr	1584
		Off highway 50 ton	01590 200 5610	1020.56	/day									5	2	day		10	day	10206
		Truck Driver, Heavy	Trhv	$39.15	HR									40	2	hr		80	hr	3132
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			109110
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			109110

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Guard Rail 1AB																			
	Structure's Demolition Cost																			
		Excavator 2 1/2 CY	01590 200 0320	1237.56	/day									1	1	day		1	day	1238
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									8	1	hr		8	hr	395
		CLAB	Clab	$38.50	HR									8	3	hr		24	hr	924
		Foreman Average, Outside	Foreman	$53.65	HR									8	1	hr		8	hr	429
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3742
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3742

INCORPORATED
JUN 2 2 2005
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	SedPond 1AC										138								cy	
	Structure's Demolition Cost																			
		Excavator 2 1/2 CY	01590 200 0320	1237.56	/day									3	1	day		3	day	3713
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									24	1	hr		24	hr	1184
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	72.15	/day									3	1	day		3	day	216
		CLAB	Clab	$38.50	HR									24	2	hr		48	hr	1848
		Foreman Average, Outside	Foreman	$53.65	HR									24	1	hr		24	hr	1288
		Torch Equipment	01590 400 6350	2.78	/HR									24	1	hr		24	hr	67
		Torch Operating	01590 400 6360	4.95	/HR									24	1	hr		24	hr	119
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	408.01	/day									1	1	day		1	day	408
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$39.15	HR									8	1	hr		8	hr	313
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	35
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			9191
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Dismantling Cost																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			9191

INCORPORATED
JUN 22 2005
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Portals 2 A																			
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.										4	EA		4	EA	20800
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			20800
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	3 Man Crew																			
	Forman																			
	Crane Operator																			
	Truck Driver																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			20800

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Asphalt Removal 3 A																			
	Service Road																			
		Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									9.4	1	day		9.4	day	10251
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									75.2	1	hr		75.2	hr	3711
		Truck dump 16 ton payload	01590 200 5300	408.01	/day									9.4	4	day		37.6	day	15341
		Truck Driver, Heavy	Trhv	$39.15	HR									75.2	4	hr		300.8	hr	11776
		300 H. P. (D8)	01590 200 4310	985.16	/day									15.5	1	day		15.5	day	15270
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									124	1	hr		124	hr	6119
	Subtotal																			62488
	Asphalt Removal																			
	Upper Parking Lot and Yard	Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									10.3	1	day		10.3	day	11232
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									82.1	1	hr		82.1	hr	4052
		Truck dump 16 ton payload	01590 200 5300	408.01	/day									10.3	4	day		41.2	day	16810
		Truck Driver, Heavy	Trhv	$39.15	HR									82.1	4	hr		328.4	hr	12857
		300 H. P. (D8)	01590 200 4310	985.16	/day									10.3	1	day		10.3	day	10147
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									82.1	1	hr		82.1	hr	4052
	Subtotal																			59150
	Asphalt Removal																			
	Waste Rock Site Access Road	Tractor Loader 7 to 8 CY	01590 200 4810	1090.52	/day									3.75	1	day		3.75	day	4089
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$49.35	HR									30	1	hr		30	hr	1481
		Truck dump 16 ton payload	01590 200 5300	408.01	/day									3.75	1	day		3.75	day	1530
		Truck Driver, Heavy	Trhv	$39.15	HR									30	1	hr		30	hr	1175
	Subtotal																			8275
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			129893

INCORPORATED
JUN 19 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Riprap 4A																			
	Deer Creek Canyon	Riprap	USFS001	32	/CY						3869					CY		3869	CY	123808
	Deer Canyon	Riprap	USFS001	32	/CY						376					CY		376	CY	12032
	Elk Canyon	Riprap	USFS001	32	/CY						1130					CY		1130	CY	36160
	Subtotal																			172000
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	2 Man Crew																			
	Crane Operator																			
	Truck Driver																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			172000

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Deer Creek Mine:
C/015/018

Reclamation Bond Estimates

Earthwork

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Earthwork Summary Deer Creek Mine															
Earthwork Summary Deer Creek Mine															725270
Pocking															21621
Total															746891

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Earthwork Summary Deer Creek Mine															
Dozer															
D8R 2001Semi-U EROPS (9-43) (3Q02)	13055	46	0.1	49.35	181.54	1	181.54	$/HR	228693	LCY	158	LCY/HR	1447.4	HR	262761
Scrapper Work															
Scrapper															
631E SERIES II EROPS 2001 (9-40) (3Q02)	18615	82.4	0.1	49.35	256.33	3	768.99	$/HR					27.1	HR	20840
Dozer to load scrapper															
D8R 2001Semi-U EROPS (9-43) (3Q02)	13055	46	0.1	49.35	181.54	1	181.54	$/HR					27.1	HR	4920
Support Equipment and Personnel															
D8R 2001Semi-U EROPS (9-43) (3Q02)	13055	46	0.1	49.35	181.54	1	181.54	$/HR					85.8	HR	15576
988F Series II 2000 EROPS (9-27) (3Q02)	12710	54.35	0.1	49.35	188.57	1	188.57	$/HR					1447.7	HR	272993
140H EROPS (9-1) (3Q02)	6060	22.8	0.1	49.35	112.31	1	112.31	$/HR					85.77	HR	9633
5,000 gal H2O truck Diesel (20-6) (2Q02)	4895	27.15	0.1	39.15	99.61	1	99.61	$/HR					85.77	HR	8544
CLAB					38.5	1	38.5	$/HR					1447.7	HR	55736
Foreman Average, Outside					51.3	1	51.3	$/HR					1447.7	HR	74267
Total															725270

Rilda

WRS

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pocking															
Main Mine Pinion Juniper															
Area									34.2	AC					
Volume									340	CY/AC					
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59		11628	CY	180	CY/HR	64.6	HR	9147
Main Mine Riparian															
Area									3.6						
Volume									340	CY/AC					
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59		1224	CY	180	CY/HR	6.8	HR	963
									-						
Main Mine Raparian															
Area									8.8						
Volume									340	CY/AC					
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59		2992	CY	180	CY/HR	16.6	HR	2350
Rilda															
Area									2.33						
Volume									340	CY/AC					
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59		792	CY	180	CY/HR	4.4	HR	623
Waste Rock Site															
Area									31.92						
Volume									340	CY/AC					
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59		10853	CY	180	CY/HR	60.3	HR	8538
Total															21621

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Deer Creek Mine:
C/015/018

Reclamation Bond Estimates

Revegetation

INCORPORATED
JAN 1 4 2004
DIV OF OIL GAS

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
																				42954
	Main Mine Pinion Juniper																			9324
	Main Mine Riparian																			20688
	Main Mine Mixed Conifer																			156796
	Rilda Canyon																			5355
	Waste Rock Site																			
	Total																			235117

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Mine Pinion Juniper																			
	Mulch	Mulch										1.5				Ton/AC				
	Hay only	Hay Material Cost only	02370 550 1200 Ma	65.1	/TON					34.2						AC		51	tons	3320
	Seeeing																			
	Material Costs	Main Mine P-J Seed	DeerCreek001	79.46	Acre					34.2						AC		34.2	AC	2718
	Lavor Costs	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01	/MSF					34.2						AC		1490	MSF	28325
	Subtotal																			34363
	Reseeding Rate 25%																			8591
	Subtotal																			8591
	Total																			42954

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Mine Riparian																			
	Mulch	Mulch										1.5				Ton/AC				
	Hay only	Hay Material Cost only	02370 550 1200 Ma	65.1	/TON					3.6						AC		5	tons	326
	Seeeing																			
	Material Costs	Main Mine Riparian Seed	DeerCreek002	317.15	Acre					3.6						AC		3.6	AC	1142
	Lavor Costs	Hydro Spreader (equip. & labor) B-81 80MSF/day		19.01	/MSF					3.6						AC		157	MSF	2985
	Transplant																			
	300 Transplant per Acre																			
		300/acre within 20 ft stream	DeerCreek003	300	Acre					3.6						AC		3.6	AC	1080
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										1080	EA		1080	EA	918
	200 Transplant per Acre																			
		200/acre within 20 ft stream	DeerCreek004	110	Acre					3.6						AC		3.6	AC	396
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										720	EA		720	EA	612
	Subtotal																			7459
	Reseeding Rate 25%																			1865
	Subtotal																			1865
	Total																			9324

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Mine Mixed Conifer																			
	Mixed Conifers																			
	Mulch	Mulch										1.5				Ton/AC				
	Hay only	Hay Material Cost only	02370 550 1200 Ma	65.1	/TON					8.8						AC		13	tons	846
	Seeeing																			
	Material Costs	Main Mine Mixed Conifer Seed	DeerCreek008	388.35	Acre					8.8						AC		8.8	AC	3417
	Lavor Costs	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01	/MSF					8.8						AC		383	MSF	7281
	Transplant																			
	Conifter Transplants																			
		Main Mine Mixed Conifer Transplant	DeerCreek009	395	Acre					8.8						AC		8.8	AC	3476
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										1800	EA		1800	EA	1530
	Subtotal																			16550
	Reseeding Rate 25%																			4138
	Subtotal																			4138
	Total																			20688

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Rilda Canyon																			
	Mulch	Mulch										1.5				Ton/AC				
	Hay only	Hay Material Cost only	02370 550 1200 Ma	65.1	/TON					31.92						AC		48	tons	3125
	Seeeing																			
	Material Costs	Rilda Seed		830	Acre					31.92						AC		31.92	AC	26494
	Lavor Costs	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01	/MSF					31.92						AC		1390	MSF	26424
	Transplant																			
	100 Transplant per Acre																			
		Rilda Trans 100/AC	DeerCreek011	974	Acre					31.92						AC		31.9	AC	31071
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										3192	EA		3192	EA	2713
	200 Transplant per Acre																			
		Rilda Trans 200/AC	DeerCreek012	166	Acre					31.92						AC		31.9	AC	5295
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										6384	EA		6384	EA	5426
	400 Transplant per Acre																			
		Rilda Trans 400/AC	DeerCreek013	440	Acre					31.92						AC		31.9	AC	14036
		Bare root seedlings 6" to 10"	02912 350 0561	0.85	Ea.										12768	EA		12768	EA	10853
	Subtotal																			125437
	Reseeding Rate 25%																			31359
	Subtotal																			31359
	Total																			156796

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Waste Rock Site																			
	Pinyon-Juniper																			
	Mulch	Mulch										1.5				Ton/AC				
	Hay only	Hay Material Cost only	02370 550 1200 Ma	65.1	/TON					2.33						AC		3	tons	195
	Seeeing																			
	Material Costs	Waste Rock Site		931	Acre					2.33						AC		2.33	AC	2169
	Lavor Costs	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01	/MSF					2.33						AC		101	MSF	1920
	Subtotal																			4284
	Reseeding Rate 25%																			1071
	Subtotal																			1071
	Total																			5355

INCORPORATED
JAN 14 2004
DIV OF OIL GAS & MINING

Rilda Canyon Portal Facilities:
C/015/0018

Reclamation Bond Estimates

Demolition

INCORPORATED
FEB 24 2006
DIV OF OIL GAS & MINING

Ref.	Description	Cost
1A	Sediment Pond 1A	$660
1B	Runoff Collection Tank 1B	$9,668
1C	Parking Lot 1C	$36,194
1D	Retaining Structures 1D	$8,329
1E	Parking Garage 1E	$10,316
1F	Office/Bathhouse/Warehouse 1F	$55,019
1G	Non-CoalCoal-Waste Storage 1G	$9,668
1H	Oil Storage 1H	$2,128
1I	Fuel Storage 1I	$14,076
1J	Rock Dust Storage 1J	$4,431
1K	Storage Sheds 1K	$12,598
1L	Lift Station 1L	$3,712
1M	Mine Ventilation Fan 1M	$10,054
1N	Power Supply 1N	$7,319
1O	Water Treatment Building 1O	$10,885
1P	Water Tank 1P	$11,075
1Q	Septic Tanks 1Q	$2,547
1R	Drainage System 1R	$14,714
2A	Portals 2 A	$10,400
	Total	$233,793

INCORPORATED
FEB 24 2006
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Sediment Pond 1A																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									0.25	1	day		0.25	day	$158
		Eq. Op., Medium Equipment (Eqm	Eqmd	$52.00	HR									2	1	hr		2	hr	$104
		CLAB	Clab	$41.55	HR									2	1	hr		2	hr	$83
		Foreman Average, Outside	Foreman	$57.30	HR									2	1	hr		2	hr	$115
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.25	1	day		0.25	day	$109
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									2	1	hr		2	hr	$84
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							1				ton		1	ton	$7
	Total																			$660

INCORPORATED
FEB 24 2006
DIV OF OIL GAS & MINING

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Runoff Collection Tank 1B																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	2	day		4	day	$2,536
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						83			2	1	day		2	day	$146
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									2	1	day		2	day	$232
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	2	hr		32	hr	$1,664
		CLAB	Clab	$41.55	HR									24	3	hr		72	hr	$2,992
		Foreman Average, Outside	Foreman	$57.30	HR									24	1	hr		24	hr	$1,375
		Torch Equipment	01590 400 6350	2.21	/HR									24	1	hr		24	hr	$53
		Torch Operating	01590 400 6360	8.91	/HR									24	1	hr		24	hr	$214
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							10				ton		10	ton	$70
	Subtotal																			$9,868

INCORPORATED
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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Parking Lot 1C																			
	Structure's Demolition Cost																			
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									7	2	day		14	day	$15,173
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									56	2	HR		112	hr	$5,824
		Truck dump 16 ton payload	01590 200 5300	435.96	/day									7	2	day		14	day	$6,103
		Truck Driver, Heavy	Trhv	$42.00	HR									56	2	HR		112	hr	$4,704
		300 H. P. (D8)	01590 200 4310	1047.28	/day									3	1	day		3	hr	$3,142
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	HR		24	hr	$1,248
	Rubble's Weight (exclude steel)	Nielson Construction	Neilson Con.	7	/TON							5550				tons				
		Truck dump 16 ton payload	01590 200 5300	435.96	/day															
		Truck Driver, Heavy	Trhv	$42.00	HR															
	Total																			$38,194

Note: Estimated entire yard asphalted 4" thick (229,600 sf)

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Retaining Structures 1D																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		300 H. P. (D8)	01590 200 4310	1047.28	/day									2	1	day		2	day	$2,095
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		CLAB	Clab	$41.55	HR									16	2	hr		32	hr	$1,330
		Foreman Average, Outside	Foreman	$57.30	HR									16	1	hr		16	hr	$917
		Torch Equipment	01590 400 6350	2.21	/HR									16	1	hr		16	hr	$35
		Torch Operating	01590 400 6360	8.91	/HR									16	1	hr		16	hr	$143
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1	1	day		1	day	$436
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									8	1	hr		8	hr	$336
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							15				ton		15	ton	$105
	Total																			$8,329

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Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Parking Garage 1E																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									1	1	day		1	day	$634
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									1	1	day		1	day	$116
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		Excavator 1.5 CY	01590 200 0200	633.99	/day									5	1	day		5	day	$3,170
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day									5	1	day		5	day	$365
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									40	1	hr		40	hr	$2,080
		Tractor Loader 7 to 8 CY	01590 200 4610	1083.76	/day									1	1	day		1	day	$1,084
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		CLAB	Clab	$41.55	HR									8	2	hr		16	hr	$665
		Foreman Average, Outside	Foreman	$57.30	HR									8	1	hr		8	hr	$458
		Truck dump 16 ton payload	01590 200 5300	435.96	/day									1	1	day		1	day	$436
		Truck Driver, Heavy	Trhv	$42.00	HR									8	1	hr		8	hr	$336
		Nielson Construction	Neilson Con.	7	/TON							20						20	ton	$140
	Steel's Weight																			
	Total																			$10,316

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Office/Bathhouse/Warehouse 1F																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									7	1	day		7	day	$4,438
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									7	1	day		7	day	$810
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									56	1	hr		56	hr	$2,912
		Excavator 1.5 CY	01590 200 0200	633.99	/day									7	1	day		7	day	$4,438
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day									7	1	day		7	hr	$511
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									56	1	day		56	hr	$2,912
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									7	1	day		7	hr	$7,586
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									56	1	hr		56		$2,912
		CLAB	Clab	$41.55	HR									56	3	hr		168		$6,980
		Foreman Average, Outside	Foreman	$57.30	HR									56	1	hr		56		$3,209
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									7	3	day		21	day	$9,155
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									56	3	hr		168	hr	$7,056
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							300				ton		300	ton	$2,100
	Total																			$55,019

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Non-CoalCoal-Waste Storage 1G																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						100			2	1	day		2	day	$146
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									2	1	day		2	day	$232
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		CLAB	Clab	$41.55	HR									16	1	hr		16	hr	$665
		Foreman Average, Outside	Foreman	$57.30	HR									16	1	hr		16	hr	$917
		Truck dump 16 ton payload	01590 200 5300	435.96	/day									2	2	day		4	day	$1,744
		Truck Driver, Heavy	Trhv	$42.00	HR									16	2	hr		32	hr	$1,344
		Nielson Construction	Neilson Con.	7	/TON							60				ton		60	ton	$420
	Total																			$9,668

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Oil Storage 1H																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									0.5	1	day		0.5	day	$317
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						25			0.5	1	day		0.5	day	$37
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									4	1	hr		4	hr	$208
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									0.5	1	day		0.5	day	$542
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									4	1	hr		4	hr	$208
		CLAB	Clab	$41.55	HR									4	1	hr		4	hr	$166
		Foreman Average, Outside	Foreman	$57.30	HR									4	1	hr		4	hr	$229
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	$35
	Total																			$2,128

INCORPORATED
FEB 27 2006
DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Fuel Storage 1I																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									4	1	day		4	day	$2,536
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						100			4	1	day		4	day	$292
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									32	1	hr		32	hr	$1,664
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									4	1	day		4	day	$4,335
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									32	1	hr		32	hr	$1,664
		CLAB	Clab	$41.55	HR									32	1	hr		32	hr	$1,330
		Foreman Average, Outside	Foreman	$57.30	HR									32	1	hr		32	hr	$1,834
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							5				ton		5	ton	$35
	Total																			$14,076

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Subtotal																			$11,377
Rilda Canyon Portal Facilities																				
	Rock Dust Storage 1J																			
	Structure's Demolition Cost																			
		Truck Mounted Crane 55 ton	01590 600 2600	802.79	/day									1	1	day		1	day	$803
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		Excavator 1.5 CY	01590 200 0200	633.99	/day									1	1	day		1	day	$634
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day									1	1	day		1	day	$73
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		CLAB	Clab	$41.55	HR									8	2	hr		16	hr	$665
		Foreman Average, Outside	Foreman	$57.30	HR									8	1	hr		8	hr	$458
		Torch Equipment	01590 400 6350	2.21	/HR									8	1	hr		8	hr	$18
		Torch Operating	01590 400 6360	8.91	/HR									8	1	hr		8	hr	$71
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1	1	day		1	day	$436
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									8	1	hr		8	hr	$336
	Disposal Cost Non Steel	Nielson Construction	Nelson Con.	7	/TON							15				ton		15	ton	$105
	Total																			$4,431

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Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Storage Sheds 1K																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									2	1	day		2	day	$232
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		Excavator 1.5 CY	01590 200 0200	633.99	/day									3	1	day		3	day	$1,902
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						130			3	1	day		3	day	$219
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									2	1	day		2	day	$2,168
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		CLAB	Clab	$41.55	HR									16	2	hr		32	hr	$1,330
		Foreman Average, Outside	Foreman	$57.30	HR									24	1	hr		24	hr	$1,375
	Transportation Cost Non Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.96	/day									1	1	day		1	day	$436
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									8	1	hr		8	hr	$336
	Disposal Cost Non Steel	Nielson Construction	Nellson Con.	7	/TON							60				ton		60	ton	$420
	Total																			$12,598

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Lift Station 1L																			
	Structure's Demolition Cost																			
		Truck Mounted Crane 55 ton	01590 800 2600	602.79	/day									1	1	day		1	day	$803
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		Excavator 1.5 CY	01590 200 0200	633.99	/day									1	1	day		1	day	$634
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						10			1	1	day		1	day	$73
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		CLAB	Clab	$41.55	HR									8	1	hr		8	hr	$332
		Foreman Average, Outside	Foreman	$57.30	HR									8	1	hr		8	hr	$458
		Torch Equipment	01590 400 6350	2.21	/HR									8	1	hr		8	hr	$18
		Torch Operating	01590 400 6360	8.91	/HR									8	1	hr		8	hr	$71
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							15				ton		15	ton	$105
	Total																			$3,712

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Mine Ventilation Fan 1M																			
	Structure's Demolition Cost																			
		Truck Mounted Crane 55 ton	01590 600 2600	802.79	/day									3	1	day		3	day	$2,408
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		Excavator 1.5 CY	01590 200 0200	633.99	/day									1	1	day		1	day	$634
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						50			1	1	day		1	day	$73
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		CLAB	Clab	$41.55	HR									24	1	hr		24	hr	$997
		Foreman Average, Outside	Foreman	$57.30	HR									24	1	hr		24	hr	$1,375
		Torch Equipment	01590 400 6350	2.21	/HR									24	1	hr		24	hr	$53
		Torch Operating	01590 400 6360	8.91	/HR									24	1	hr		24	hr	$214
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1	2	day		2	day	$872
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									16	2	hr		32	hr	$1,344
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							60				ton		60	ton	$420
	Total																			$10,054

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Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Power Supply 1N																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						100			2	1	day		2	day	$146
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day									2	1	day		2	day	$2,168
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									16	1	hr		16	hr	$832
		CLAB	Clab	$41.55	HR									16	1	hr		16	hr	$665
		Foreman Average, Outside	Foreman	$57.30	HR									16	1	hr		16	hr	$917
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							15				ton		15	ton	$105
	Total																			$7,319

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Water Treatment Building 1O																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									3	1	day		3	day	$1,902
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						40			3	1	day		3	day	$219
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		Truck Mounted Crane 55 ton	01590 600 2600	802.79	/day									3	1	day		3	day	$2,408
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		CLAB	Clab	$41.55	HR									24	2	hr		48	hr	$1,994
		Foreman Average, Outside	Foreman	$57.30	HR									24	1	hr		24	hr	$1,375
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.5	1	day		0.5	day	$218
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									4	1	hr		4	hr	$168
	Disposal Cost Non Steel	Nielson Construction	Nelson Con.	7	/TON							15				ton		15	ton	$105
	Total																			$10,885

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Water Tank 1P																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									0.5	1	day		0.5	day	$317
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						30			0.5	1	day		0.5	day	$37
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									4	1	hr		4	hr	$208
		Truck Mounted Crane 25 ton	01590 600 2500	554.38	/day									4.5	1	day		4.5	day	$2,495
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									36	1	hr		36	hr	$1,872
		CLAB	Clab	$41.55	HR									24	2	hr		48	hr	$1,994
		Foreman Average, Outside	Foreman	$57.30	HR									36	1	hr		36	hr	$2,063
		Torch Equipment	01590 400 6350	2.21	/HR									24	1	hr		24	hr	$53
		Torch Operating	01590 400 6360	8.91	/HR									24	1	hr		24	hr	$214
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1	1	day		1	day	$436
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									8	1	hr		8	hr	$336
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							150				ton		150	ton	$1,050
	Total																			$11,075

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DIV OF OIL GAS & MINING

Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Septic Tanks 1Q																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									1	2	day		2	day	$1,268
		Hammer Hydraulic 500 to 1,200 ft-lb	01590 400 2860	73.03	/day						40			1	1	day		1	day	$73
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									8	1	hr		8	hr	$416
		CLAB	Clab	$41.55	HR									8	1	hr		8	hr	$332
		Foreman Average, Outside	Foreman	$57.30	HR									8	1	hr		8	hr	$458
	Total																			$2,547

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Drainage System 1R																			
	Structure's Demolition Cost																			
		Excavator 1.5 CY	01590 200 0200	633.99	/day									3	1	day		3	day	$1,902
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		Tractor Loader 7 to 8 CY	01590 200 4810	1083.76	/day						85			3	1	day		3	day	$3,251
		Excavator 1.5 CY	01590 200 0200	633.99	/day									2	1	day		2	day	$1,268
		Attachment Bucket Thumb	01590 200 0342	115.75	/day									2	1	day		2	day	$232
		Eq. Op., Medium Equipment (Eqmd)	Eqmd	$52.00	HR									24	1	hr		24	hr	$1,248
		CLAB	Clab	$41.55	HR									24	1	hr		24	hr	$997
		Foreman Average, Outside	Foreman	$57.30	HR									24	1	hr		24	hr	$1,375
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									2	2	day		4	day	$1,744
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$42.00	HR									16	2	hr		32	hr	$1,344
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON							15				ton		15	ton	$105
	Steel's Weight																			
	Total																			$14,714

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Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Portals 2 A																			
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.										2	EA		2	EA	$10,400
	Total																			$10,400

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Rilda Canyon Portal Facilities:
C/015/0018

Reclamation Bond Estimates

Earthwork

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	Cost
Earthwork Summary	
Earthwork	$578,755
Road Reconstruction	$42,320
Total	$621,075

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	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Earthwork															
Rilda Canyon Portal Facilities															
Dozer															
D8R Series II Semi-U EROPS (9-55) (2nd0	13720	53.4	0.1	52	196.49	2	392.98	$/HR	116,192	LCY	316	LCY/HR	367.7	HR	$144,497
Scrapper Work*															
Scrapper															
631G (9-51) (2nd04)	19145	19145	0.1	52	267.14	3	801.42	$/HR			696	LCY/HR	166.7	HR	$133,597
Dozer to load scrapper															
D8R Series II Semi-U EROPS (9-55) (2nd0	13720	53.4	0.1	52	196.49	1	196.49	$/HR					500	HR	$98,245
Support Equipment and Personnel															
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42	$/HR					245	HR	$36,363
988G EROPS (9-38) (3Q03)	9010	40.05	0.1	52	152.37	1	152.37	$/HR					245	HR	$37,331
140H EROPS (9-11) (2H04)	5440	23	0.1	52	111.3	1	111.3	$/HR					245	HR	$27,269
5,000 gal H2O truck Diesel (20-17) (1Q04)	4725	28.05	0.1	42	102.39	1	102.39	$/HR					245	HR	$25,086
CLAB					41.55	1	41.55	$/HR					735.4	HR	$30,556
Foreman Average, Outside					57.3	1	57.3	$/HR					735.4	HR	$42,138
Subtotal															$575,082
Pocking															
Area									13.1						
Volume									340	CY/AC					
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42		4454.0	CY	180	CY/HR	24.7	HR	$3,673
Subtotal															$3,673
Total															$578,755

*Scraper Productivity

Capacity	31 CY		
Weight Empty	96,880 LBS		
Weight Loaded (2900 lbs/cy)	186,780 LBS		
Load Time	0.6 MIN		
Manuever Time	0.7 MIN		
Rolling Resistance	4%		
Grade	7%		
Total Effect Grade	11%		
Maximum Speed (Uphill)	6 MPH		
Maximum Speed (Downhill)	29 MPH		
Distance from subsoil pile	3200 FT	only uphill distance	Total distance = 3600 ft
Distance from topsoil pile	1800 FT	only uphill distance	Total distance = 1800 ft
Topsoil Volume	19,700 CY		
Subsoil Volume	96,492 CY		

Travel Time (Subsoil)

Loaded
3200 ft @ 6 mph
6 mph x 5280 ft/m = 31,680 ft/hr
3200 ft x 1/31,680 ft/hr = 0.1 hr = 6.06 min

Empty
3600 ft @ 29 mph
29 mph x 5280 ft/m = 153,120 ft/hr
3600 ft x 1/153/120 ft/hr = 0.024 hr = 1.4 min

Cycle Time
0.6 min + 6 min + 0.7 min + 1.4 min = 8.7 min/load
96,492 cy/31cy/load = 3113 loads
3113 loads x 8.7 min = 27,083.1 min = **451 hrs**

Travel time (Topsoil)

Loaded
1800 ft @ 6 mph
6 mph x 5280 ft/m = 31,680 ft/hr
3600 ft x 1/31,680 ft/hr = 0.06 hr = 2.4 min

Empty
2200 ft @ 29 mph
29 mph x 5280 ft/m = 153,120 ft/hr
2200 ft x 1/153/120 ft/hr = 0.014 hr = 0.9 min

Cycle Time 0.6 min + 2.4 min + 0.7 min + 0.9 min = 4.6 min/load
19,700 cy/31cy/load = 636 loads
636 loads x 4.6 min = 2926 min = **49 hrs**

Total Cycle **451 hrs + 49 hrs = 500 hrs**

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Ref.	Description	Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Road Reconstruction			Number																	
	Culvert Replacement	18" diam Culvert 16	02630 510 2120	34.5	LF	320										FT		320	FT	$11,040
		0	0	0	0	320										FT		320	FT	$0
	Road Materials	Aggregrate Base Co	02720 200 0100	6.8	SY	2300	18	0.5								FT		4600	SY	$31,280
	Total																			$42,320

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Rilda Canyon Portal Facilities:
C/015/0018

Reclamation Bond Estimates

Revegetation

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Rilda Canyon Portal Facilities																				
	Mulch	Mulch										2				Ton/AC				
	Hay only	Hay bale	Reveg007	57.2	/ton					13.1						AC		26.2	tons	$1,499
	Seeding																			
	Material Costs	Rilda Seed	DeerCreek010	830	Acre					13.1						AC		13.1	AC	$10,873
	Labor Costs	Hydro Spreader (equip. & labor) B-81 80MSF/da	Reveg002	19.13	/MSF					13.1						AC		570.6	MSF	$10,916
	200 Transplant per Acre	Rilda Trans 100/AC	DeerCreek011	974	Acre					13.1						AC		26.2	AC	$25,519
		Bare root seedlings, 11" to 16" med. soil	02915 400 0562	1.28	Ea					13.1						AC		2620	EA	$3,354
	Subtotal																			$52,161
	Revegetation Cost			-																
	Assume 25%																			$13,040
	Subtotal																			$13,040
	Total																			$65,201

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