

C/007/0013  
Received 3/8/17  
Task #5398



**Lila Canyon Project**  
**P. O. Box 910**  
**East Carbon, Utah 84520**  
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Utah Division of Oil, Gas & Mining  
Utah Coal Program  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

March 8, 2017

Attn: Daron Haddock  
Permit Supervisor

Re: Lila Canyon Mine, UtahAmerican Energy, Inc. C/007/013  
Bonding Deficiencies for Task ID#'s 5351, 5352, 5353

Dear Mr. Haddock,

**To avoid confusion and duplicates, attached you will find the bonding information for the following Lila Canyon submittals:**

- **Pond 1 Culvert Task ID# 5352**
- **IBC for New Ventilation Breakout Task ID # 5353, and**
- **Drainage Revisions Task ID# 5351**

**This bonding information is being submitted for these three submittals combined, as the information for these submittals is identical.**

The following pages include each original bonding deficiency text, and our answer regarding it below it. Redline Strikeouts have been included for your review.

**ITEMS ADDED:**

1. A second Fuel Tank 26  
*Ans. Deleted first Fuel Tank 26. This items was entered twice.*
3. Power Cable 32  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
4. Waste Rock Stacking Tube 33  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
5. Visual Disconnect 34  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
6. Drop Box 35  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
7. Abandon Concrete Room 36  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
8. Median Barrier 37  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
9. Concrete Trash Chute 38  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
10. Garben Breakout (2) 39  
*Ans. Item was added to bonding cost because it was added to the Surface Map – 5-2a.*
11. Ventilation Fan 11 sheet has additions of Portal Sealing and Helicopter  
*Ans. This was added because DOGM may not have access to seal the portals from inside the mine.*
12. Concrete Demolition section in multiple sheets has had a change from Loading and Trucking  
to (Front end loader 3 CY. and 12 CY. (16 Ton) Dump Truck ½ round trip-added).  
*Ans. These changes are more realistic on how the concrete will be handled and these changes are shown as red line.*
13. Reclaim Escape Tunnel Fan House sheet added 15 CY. for Concrete Demolition and removed 20 CY.  
*Ans. Changed the figure back to 20 CY.*
14. Added Employee Parking as description for Mine Facility Rd. Truck Loadout 23, Office Bathhouse Warehouse Parking 24, and Mine Parking 25.  
*Ans. These additions are shown as red lined.*

15. The Culverts were added and updated (12 ct. updated length, width, height), (36 ct. added) - good job!
16. Lila Old Fan Portals, Old Horse Canyon Lila Fan Portal kept 2 Portal Sealing and added 2 new Portals seals for Seal Lila North and South Portals so 5 became 7 making a total of 9 ct (count) Portal Sealing. Total was red line.  
*Ans. The figure should be a total of 12 portals to be sealed. Nine (9) portals will be sealed using helicopters. They are as follows: 2 Fan Ventilation, 2 Graben Breakout, 2 Old Horse Canyon and 3 Lila South Portals. Three (3) portals will be sealed from surface access.*
17. Earthwork Grading 1 Load and Hauling Backfill Material 631 G (9-51)(2<sup>nd</sup>04) Quantity Changed from 28928 CY to page footer -> Page ½ 33783 CY.  
*Ans. The earthwork numbers changed because of the storage pad addition.*
18. Earthwork (Topsoil 2 changed from Grading) Quantity changed from 56000 CY to 61086 and Equip + Labor Time/Dis. Changed from 142.5 Hrs. to 155.4 Hrs.  
*Ans. The topsoil numbers changed because of the storage pad addition.*
19. Earthwork Support Equip + Labor Time/Dis. Changed from 384.2 to 335.  
*Ans. An addition error was discovered and corrected.*
20. Vegetation Area Changed from 34 to 32.94 AC.  
*Ans. By changing the location of the fan portal, the disturbed acreage was changed from 34 acres to 32.9 acres. This has discussed in Chapter 5 of the M&RP.*

**ITEMS DELETED:**

1. Drain Field 9 sheet.  
*Ans. Drain Field is now included in the bond cost as sheet no. 11*
2. Conveyor ROM Stock Pile to Crusher sheet.  
*Ans. Conveyor ROM Stock Pile to Crusher is now included in the bond cost as sheet no. 13.*
3. On Water Treatment Plant Sheet Item missing 3000 gal to 5000 gal tank Dismantling Cost.  
*Ans. The water tank was removed from the Water Treatment Plant and sheet 08 was created for the dismantling costs for the tank.*
4. On Water Treatment Plant Sheet Item missing 3000 gal to 5000 gal tank Disposal costs.  
*Ans. The water tank was removed from the Water Treatment Plant and sheet 08 was created for the disposal costs for the tank.*

5. On Sewer Tank sheet item 3000-5000 gal tank Remove tank, Remove Sludge, and Disposal Costs removed.  
*Ans. Sewer Tank is now included in the bond cost as sheet no. 09.*
6. Concrete Demolition section in multiple sheets has had a change from Loading and Trucking to (Front end loader 3 CY. and 12 CY. (16 Ton) Dump Truck ½ round trip-added).  
*Ans. These changes are more realistic on how the concrete will be handled and these changes are shown as red line.*
7. Reclaim Escape Tunnel Fan House sheet added 15 CY. for Concrete Demolition and removed 20 CY.  
*Ans. Changed the figure back to 20 CY.*
8. Demolition cost description for Mine facility Rd Truck Loadout Rd sheet, Office Bathhouse Warehouse 24, and Mine Parking 25.  
*Ans. These items have been changed to red line.*

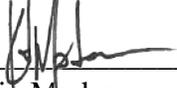
**OTHER ITEMS OF IMPORTANCE:**

1. Left in place should not be a cost amount (this should have 0 costs with a note on the Sheet stating why is has 0 and a reference to support documentation and explanation).  
*Ans. All items that are to be left in place after reclamation show a 0 amount.*
2. Sheet names on total page of Demo workbook are inconsistent with the matching dollar Amounts listed.  
*Ans. The sheet number and dollar amounts on the DEMO sheet match.*
3. Demo Total Sheet needs fixed to represent what is in the Workbook and the workbook Needs to reflect what is in the Mine Reclamation Plan. Examples of corrections or updates needing are Sewer Tank because became cost became cost became Left in place. Drain field is missing, there are 2 Fuel Tank 26, Conveyor ROM Stock Pile to Crusher is missing.  
*Ans. All corrections have been made.*
4. How did you apply the Helicopter bids and costing in the cost estimates? The RSMMeans referenced cost don't match up.  
*Ans. The Classic Helicopter bid was used for the cost estimate. The RS Means reference number was left in place by error.*
4. What year are the Reclamation costs in?  
*Ans. All cost figures are in 2016 dollars.*

If you have any questions, or need any additional information regarding this submittal, please

contact me directly at 435-888-4000.

Sincerely,

A handwritten signature in black ink, appearing to read 'Karin Madsen', written over a horizontal line.

Karin Madsen  
Engineering Tech  
UtahAmerican Energy, Inc.

# APPLICATION FOR PERMIT PROCESSING

<input checked="" type="checkbox"/> Permit Change X	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: ACT/007/013
L17-002 Bonding Submittal						Mine: Lila Canyon
						Permittee: UtahAmerican Energy, Inc.

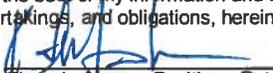
Description, include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation

<input type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV # _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

**X Attach 1 complete digital copy of the application.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

  
 Signed - Name - Position - Date Karin Madsen / Engineering Tech / 3-8-17

Subscribed and sworn to before me this 8<sup>th</sup> day of March, 2017.

My Commission Expires: Utah March 27, 2017  
 Attest: Carson  
 Notary Public  
 STATE OF  
 COUNTY OF



Received by Oil, Gas & Mining

ASSIGNED TRACKING NUMBER



## Bond Amount

## Direct Costs

Subtotal Demolition and Removal	\$695,047	\$778,545
Subtotal Backfill and Grading	\$433,601	\$463,846
Subtotal Vegetation	\$69,112	\$52,903
Subtotal Direct Costs	\$1,197,760	\$1,295,293

## Indirect Costs

Mob/Demob	\$119,776	10.0%	\$129,529
Contingency	\$59,888	5.0%	\$64,765
Engineering Redesign	\$29,944	2.5%	\$32,382
Main Office Expense	\$81,448	6.8%	\$88,080
Project Management Fee	\$29,944	2.5%	\$32,382
Subtotal Indirect Costs	\$321,000	26.8%	\$347,139

SubTotal	\$1,518,759	\$1,642,432
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Total	\$1,518,759	\$1,642,432
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Escalation Factor		1.50%
Number of Years		2
Escalation	\$45,563	\$49,273

Total	\$1,564,322	\$1,691,705
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Reclamation Cost	<del>2013</del> 2018	\$1,564,322	\$1,691,705
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Bond Amount (rounded to nearest \$1,000)	\$1,564,000	\$1,692,000
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Bond Posted Up to December 2010	\$1,807,000	
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## Cost factors

Means Number	Material	Unit Cost	Units
31 23 16 42 0260	Excavation Bulk Bank 2 CY (322BL)	1.44	CY
32 91 13.23 3100	75 HP Dozerw/scarifier	3.93	MSF
32 01 90.13 0180	Fertilizer Hydro Spreader Mat. Only	4.30	MSF
32 01 90.13 0180	Hydro Spreader (equip. & labor)B-81 80MSF	4.99	MSF
Great Basin	Grasses for Lila Canyon	164.70	AC
Great Basin	Forbs for Lial Canyon	42.55	AC
Great Basin	Shrubs for Lila Canyon	85.33	AC
32 01 90.13 0180	Seeding Hydro spread	4.99	MSF
02 41 16.13 0020	Steel Buld.	0.28	CF
Scamp Excavation	Concrete Demolition	18.00	CY
31 23 16.42 1300	Front End Loader 3CY	1.69	CY
31 23 23.20 1025	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	10.80	CY
02 41 16.17 4200	On Site Disposal	9.07	CY
ECDC	ECDC	65.00	/Ton
02 65 10.30 0130	9,000 Gal. To 12,000 Gal. Tank	1325.00	EA.
02 65 10.30 1029	9,000 Gal. To 12,000 Gal. Tank	1050.00	EA.
JennChem	Seal Portals	4320.00	EA.
23 05 05.10 3600	Mechanical Equipment Heavy	795.00	Ton
31 23 16.42 0260	Excavation Bulk Bank 2 CY (322BL)	1.44	CY
31 23 16.13 3080	Backfill Trench Minimal Haul 2 1/4 CY	1.79	CY
01 54 33.20 4360	D9R Semi-U EROPS (9-54 (2H04)	2392.00	/Day
	Hourly Costs		
01 54 33.20 0320	Cat 326 FL	1582.00	/Day
	Hourly Costs		
01 54 33.20 4870	988 G EROPS (9-38)(3Q04)	3085.00	/Day
	Hourly Costs		
01 54 33.20 1200	825G (6-13)(4Q03)	187.80	/Day
	Hourly Costs		
01 54 33.20 3700	631G (9-51)(2nd04)	2548.00	/Day
	Hourly Costs		
01 54 33.20 5610	770 (20-11)(3Q03)	1861.00	/Day
	Hourly Costs		
01 54 33.40 6950	6000 Ga. H2O Truck Diesel 2nd2008)	1168.00	/Day
	Hourly Costs		
01 54 33.40 7100	Pick-up Truck 4x4 1 Ton	145.80	/Day
	Hourly Costs		
R.S.Means Back Page	Foreman Outside	51.90	
R.S.Means Back Page	Equipment Operator, Medium	51.10	
Classic Helicopters	Helicopter	2774	/Day
JennChem	Labor	265.00	/HR
26 05 05.10 1900	Wire Removal	19.75	FT
02 41 16.13 0100	Mixture of types	0.31	CF
02 41 13.60 1700	Chain link, post & fabric 8' 10' high remove only	3.07	FT
02 41 13.17 5050	Pavement Removal 4" to 6"	7.12	SY
02 41 13.30 1600	Median Barruer	10.71	LF
Scamp	Transportation to Nielson Dump	13.63	/Ton
Nielson	Nielson Construction	7.00	/Ton

02 41 13.80 0200	Wood Poles and cross bars	247.00 EA.
33 71 39.13 0820	High Voltage Line	144.91 /Mile
02 65 10.30 0110	3000 to 5000 gal. tank	571.50 EA.
02 65 10.30 1023	3000 to 5000 gal. tank	760.00 EA.
02 65 10.30 0300	3000 to 5000 gal. tank	230.50 EA.
02 41 13.30 0800	Guadrail Corrugated Steel	12.17 LF
02 41 13.20 0200	End Section	34.15 EA.
02 41 13.40 0180	36" CMP (5)	12.24 LF
02 41 13.40 0200	72" CMP (1)	34.25 LF
AML		<del>3000.00</del>
AML		<del>5700.00</del>
13 05 05.60 0050	Silos, Selective Demolition	1875.00
Scamp Quote	To Scamp Yard./Salvage	135.00 Hr
R.S.Means Back Page	Truck Driver	43.20
R.S.Means Back Page	Light Equipmnet Operator	49.15
01 54 33.40 2800	250 KW Diesel Generator	807.60 /Day
01 54 33.40 7660	Water Tank Portable	17.30 /Day
01 54 33.20 4710	Front End Loader, 4WD, 3.5CY., 145 HP	516.00 /Day

## Demolition and Removal

Office/Bathhouse 01	97671	
Shop/Warehouse 02	126100	
Security Shack 03	612	
Mine Substation 04	13531	
Surface Power Lines 05	2146	
Water Treatment Plant 06	786	
Portable Water Tank 07	1354	
Process Water Tank 08	1354	
Sewer Tank 09	1563	
Drain Field 10	0	
Ventilation Fan 11	<del>59349</del>	84676
Conveyor Tunnel to Coal Stockpile 12	33260	
Conveyor ROM Stockpile to Crusher 13	12008	
Crusher Conveyor to Loadout Bin 14	8193	
Conveyor Loadout Bin Truck Loadout 15	862	
Reclaim Escape Tunnel Fan House 16	17945	
Conveyor Storage Pile Staking Tube 17	11598	
Crusher/Screen Plant 18	4941	
Truck Scale to Loadout 19	7870	
Coal Storage Bin 20	4058	
Guard Rail 21	18771	
Underground Pipes 22	0	
Chain Link Fence 23	4605	
Mine facilities Rd Truck Loadout Rd 24	47134	
Office Bathhouse Warehouse Parking 25	79970	
Mine Parking 26	20793	
Fuel Tanks 27	2972	
Powder & Cap Magazine 28	3180	
Culverts 29	<del>22954</del>	24632
Lila Old Fan Portals 30	81102	
Pole Barn 31	5664	
Rock Dust Silo 32	2701	695,047
Power Cable 33	0	
Waste Rock Stacking Tube 34	4212	
Visual Disconnect 35	4654	
Drop Box 36	281	
Abandon Concrete Room (2) 37	10226	
Median Barrier 38	8140	
Concrete Trash Chute 39	2442	
Graben Breakout (2) 40	26537	
	<u>778,545</u>	

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	
	Office/Bathroom 01																				
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	150	100	15			225000					CF		225000	CF	63000	
	Structure's Vol. Demolition																0.3	2500	CY		
	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 to Nielson Dump	Scamp	13.63	/Ton													600	Tons	8178	
	Transportation Cost Steel Drive												480			lb/cy					
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton													600	Tons	4200	
	Subtotal																			75378	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition	Concrete Demolition	Scamp Excavation	18.00	CY	150	100	1								FT		555.6	CY	10001	
	Concrete Cost																	1.3			
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY														722	CY	1220
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY														722	CY	7798
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														361	CY	3274
	Subtotal																			22293	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			97671	

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 02																				
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF	150	100	20							300000	CF		300000	CF	84000	
	Structure's Vol. Demolition																0.3	3333	CY		
	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 to Nielson Dump	Scamp	13.63	/Ton													800	Ton	10904	
	Transportation Cost Steel Drive												480				lb/cy				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton													800	Ton	5600	
	Subtotal																			100504	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Slab																				
	Concrete Demolition					150	100	1			556										
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY													556	CY	10008	
	Concrete Vol. Demolished																1.3	723	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													723	CY	1222	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY													723	CY	7808	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													723	CY	6558	
	Subtotal																			25596	
	First Bent																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY																
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY																
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY																
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY																
	Subtotal																				
	Total																			126100	

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 Shack 03																			
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	20	10	8								FT		1600	CF	448
	Structure's Vol. Demolition																0.3	480		
	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 to Nielson Dump	Scamp	13.63	/Ton													4	Ton	52
	Transportation Cost Steel Drive																			
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			LB/CF		4	Ton	27
	Subtotal																			527
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavator	18.00	CY	20	10	0.25								FT		2	CY	33
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													2.4	CY	4
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY													2.4	CY	26
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													2.4	CY	22
	Subtotal																			85
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			612

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		
	Mine Substation 04																					
	Structure's Demolition Cost																					
	Structure's Vol. Demolition																					
	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 Drive																					
	Subtotal																				0	
	Equipment's Disposal Cost	Mechanical Equipment Heavy	23 05 05.10 3600	795.00	Ton							4				4	Ton		16	Ton	12720	
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																				12720	
	Fence Demolition	Chain link, post & fabric 8' 10' high remove only	02 41 13.60 1700	3.07	FT	160										FT			160	FT	491	
	Subtotal																				491	
	Concrete Demolition																					
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	20	20	0.5					7			CY			7	CY	126	
	Concrete Vol. Demolished																1.3					
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY															9	CY	15
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															9	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															9	CY	82
	Subtotal																				320	
	Total																				13531	

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	
	Surface Power Lines 05																				
	Structure's Demolition Cost	Wood Poles and cross bars	02 41 13.80 0200	247.00	EA.										8	EA		8	EA	1976	
	Structure's Vol. Demolition	High Voltage Line	33 71 39.13 0820	144.91	/Mile	2058									3			1.17	Miles	170	
	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 Drive																				
	Disposal Cost Steel																				
	<b>Subtotal</b>																				2146
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	<b>Subtotal</b>																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	<b>Subtotal</b>																				
	<b>Total</b>																				2146

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 06																				
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF						1800				CF			1800	CF	504	
	Structure's Vol. Demolition																	0.3	540	CF	
	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 to Nielson D	Scamp	13.63	/Ton														5	Ton	68
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf		5	Ton	35	
	Subtotal																			607	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	15	15	0.5								FT		4		72	
	Concrete Vol. Demolished																1.3				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													5		8	
	Transportation Costs	12 CY (16 Ton) Dump Truck	31 23 23.20 1025	10.80	CY													5		54	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													5		45	
	Subtotal																			179	
	Total																			786	

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	
	Portable Water Tank 07																				
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF			20	15									3533	CF	989	
	Structure's Vol. Demolition																	0.3	1060	CF	
	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 to Nielson Dump	Scamp	13.63	/Ton														9	Ton	123
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480						9	Ton	63
	Subtotal																				1175
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	15	15	0.5											4		72
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY															5	8
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															5	54
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															5	45
	Subtotal																				178
	Total																				1354

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	
	Process Water Tank 08																				
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF			20	15							FT		3533	CF	989	
	Structure's Vol. Demolition																	0.3	1060	CF	
	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 to Nielson Dump	Scamp	13.63	/Ton														9	Ton	123
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf			9	Ton	63
	Subtotal																				1175
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	15	15	0.5								FT			4		72
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY															5	8
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															5	54
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															5	45
	Subtotal																				179
	Total																				1354

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	
	Sewer Tank 09																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Disposal Cost Steel																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Remove Tank	3000 to 5000 gal. tank	02 65 10.30 0110	571.50	EA.											1 EA.			1 EA.		572
	Remove Sludge	3000 to 5000 gal. tank	02 65 10.30 0300	230.50	EA.											1 EA.			1 EA.		231
	Disposal Costs	3000 to 5000 gal. tank	02 65 10.30 1023	760.00	EA.											1 EA.			1 EA.		760
	Subtotal																				1563
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				1563

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
	Drain Field 10																			
	Structure's Demolition Cost																			0
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			0
	Equipment Disposal Cost																			
	Tank Removal																			
	Remove Sludge																			
	Disposal Cost																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

Note: Will remain in place at the time of reclamation

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	
	Ventilation Fan 11																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost	Mechanical Equipment Heavy	23 05 05.10 3600	795.00	Ton							10			6	Ton		60	Ton	47700	
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs	Helicopter	Classic Helicopters	2774	/Day									0	HR			0	HR	0	
	Disposal Costs																				
	Subtotal																			47700	
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	20	20	0.5								FT		300	CY	5400	
	Concrete Vol. Demolished																1.3				
	Loading Costs																			0	
	Transportation Costs																			0	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													600	CY	5442	
	Subtotal																			10842	
	Portal Sealing																				
	Seal Construction		JennChem	4320.00	EA														2	EA	8640
	Labor		JennChem	265.00	HR										8	HR			16	HR	4240
	Helicopter		Classic Helicopters	2774	/Day										10	/Day			2	Day	5548
	Helicopter		Classic Helicopters	2774	/Day			231.17	HR-Stand By						6	HR			12	Hrs	2774
	250 KW Diesel Generator		01 54 33.40 2800	807.60	/Day										5	Day			5	Day	4038
	Water Tank Portable		01 54 33.40 7660	17.30	/Day										5	Day			5	Day	87
	Subtotal																			25327	
	Shot Crete	On Site Disposal	02 41 16.17 4200	9.07	CY	120	40	0.5											89	CY	807
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			84676	
																				59349	

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
	Conveyor Tunnel to Coal Stockpile 12																			
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	810	6	20								FT		97200	CF	27216
	Structure's Vol. Demolition																0.3	29160	CF	
	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 to Nielson Dump	Scamp	13.63	/Ton													259	Ton	3530
	Transportation Cost Steel Drive																			
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf		259	Ton	1813
	Subtotal																			32559
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						15							15	CY	270
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69														20	CY	34
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trk	31 23 23.20 1025	10.80	CY													20	CY	216
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													20	CY	181
	Subtotal																			701
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			33260

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		
	Conveyor ROM Stockpile to Crusher 13																					
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF	675	5	10								FT		33750	CF	9450		
	Structure's Vol. Demolition																0.3	10125	CF			
	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 to Nielson Dump	Scamp	13.63	/Ton														90	Ton	1227	
	Transportation Cost Steel Drive																					
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf		90	Ton	630		
	Subtotal																				11307	
	Equipment's Disposal Cost																					
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Concrete Demolition																					
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						15								15	CY	270	
	Concrete Vol. Demolished																	1.3				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69																20	CY	34
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2	31 23 23.20 1025	10.80	CY															20	CY	216
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															20	CY	181
	Subtotal																					701
	Concrete Demolition																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Concrete Demolition																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Total																					12008

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				
	Crusher Conveyor to Loadout Bin 14																							
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF	230	5	20								FT		23000	CF	6440				
	Structure's Vol. Demolition																0.3	6900	CF					
	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 to Nielson Dump	Scamp	13.63	/Ton														51	Ton	695			
	Transportation Cost Steel Drive																							
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480						51	Ton	357			
	Subtotal																				7492			
	Equipment's Disposal Cost																							
	Dismantling Cost																							
	Equipment's Vol. Demolished																							
	Loading Costs																							
	Transportation Costs																							
	Disposal Costs																							
	Subtotal																							
	Concrete Demolition																							
	Concrete Cost																							
	Concrete Vol. Demolished																							
	Loading Costs																							
	Transportation Costs																							
	Disposal Costs																							
	Subtotal																							
	Concrete Demolition																							
	Concrete Cost	Concrete Demolition	Scamp Excavator	18.00	CY						15									15	CY	270		
	Concrete Vol. Demolished																			1.3	20	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY																20	CY	34	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY																20	CY	216	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY																	20	CY	181
	Subtotal																						701	
	Total																						8193	

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	
	Conveyor Loadout Bin Truck Loadout 15																				
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	5	5	20							500	CF		500	CF	140	
	Structure's Vol. Demolition																0.3	150	CF		
	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 to Nielson Dump	Scamp	13.63	/Ton													1	Ton	14	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480					1	Ton	7	
	Subtotal																				161
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						15							15	CY	270	
	Concrete Vol. Demolished																1.3	20	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													20	CY	34	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Tnp	31 23 23.20 1025	10.80	CY													20	CY	216	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													20	CY	181	
	Subtotal																				701
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				862

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 Escape Tunnel Fan House 16																			
	Corrugated Steel	Steel Build.	02 41 16.13 0020	0.28	CF						26880					CF		26880	CF	7526
	Escape Tunnel	Steel Build.	02 41 16.13 0020	0.28	CF						1257							1257	CF	352
	Fan	Steel Build.	02 41 16.13 0020	0.28	CF						64							64	CF	18
	Fan House	Steel Build.	02 41 16.13 0020	0.28	CF						512							512	CF	143
	Structure's Vol. Demolition																0.3	8614	CF	
	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 to Nielson Dump	Scamp	13.63	/Ton													76	Ton	1036
	Transportation Cost Steel Drive																			
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480					76	Ton	532
	Subtotal																			9607
	Excavation and Backfill																			
	Reclaim Tunnel	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.44	CY	350	14	10								FT		1815	CY	2614
	Reclaim Tunnel	Backfill Trench Minimal Haul 2 1/4 CY	31 23 16.13 3080	1.79	CY													1815	CY	3249
	Escape Tunnel	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.44	CY	325	4	10										481	CY	693
	Escape Tunnel	Backfill Trench Minimal Haul 2 1/4 CY	31 23 16.13 3080	1.79	CY													481	CY	861
	Subtotal																			7417
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						20							20	CY	360
	Concrete Vol. Demolished																1.3	26	CY	26
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													26	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Tmp	31 23 23.20 1025	10.80	CY													26	CY	281
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													26	CY	236
	Subtotal																			921
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			17945

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		
	Conveyor Storage Pile Staking Tube 17																					
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF				80	20								25120	CF	7034		
	Structure's Vol. Demolition																	0.3	7536	CF		
	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 to Nielson Dump	Scamp	13.63	/Ton														67		913	
	Transportation Cost Steel Drive																					
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480						67		469	
	Subtotal																				8416	
	Equipment's Disposal Cost																					
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Concrete Demolition	Concrete Demolition	Scamp Excavation	18.00	CY	25	25	3											69	CY	1242	
	Concrete Cost																					
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY															90	CY	152
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															90	CY	972
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															90	CY	816
	Subtotal																				3182	
	Concrete Demolition																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Total																				11598	

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		
	Crusher/Screen Plant 18																					
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF						12000					CF		12000	CF	3360		
	Structure's Vol. Demolition																0.3	3600	CF			
	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 to Nielson Dump	Scamp	13.63	/Ton														32	Ton	436	
	Transportation Cost Steel Drive																					
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf			32	Ton	224	
	Subtotal																				4020	
	Equipment's Disposal Cost																					
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Concrete Demolition																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Concrete Demolition																					
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						20									20	CY	360
	Concrete Vol. Demolished																					
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY															26	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															26	CY	281
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															26	CY	236
	Subtotal																					921
	Total																					4941

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		
	Truck Scale to Loadout 19																					
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF						18850					CF		18850	CF	5278		
	Structure's Vol. Demolition																0.3	5655				
	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 to Nielson Dump	Scamp	13.63	/Ton														50	Ton	682	
	Transportation Cost Steel Drive																					
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480						50	Ton	350	
	Subtotal																				6310	
	Equipment's Disposal Cost																					
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Take-up Pad																					
	Concrete Demolition	Concrete Demolition	Scamp Excavation	18.00	CY						34											
	Concrete Cost																					
	Concrete Vol. Demolished																1.3			34	CY	612
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.68	CY															44	CY	74
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY															44	CY	475
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															44	CY	399
	Subtotal																					1580
	First Bent																					
	Concrete Demolition																					
	MCC Pad																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Total																					7870

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	
	Coal Storage Bin 20																				
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF						10000					CF		10000	CF	2800	
	Structure's Vol. Demolition																	0.3	3000		
	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 to Nielson Dump	Scamp	13.63	/Ton														27	Ton	368
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf			27	Ton	189
	Subtotal																				3357
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY						15					FT			15	CY	270
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.89	CY														20	CY	34
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY														20	CY	216
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														20	CY	181
	Subtotal																				701
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				4058

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 21																				
	Structure's Demolition Cost	Guardrail Corrugated Steel	02 41 13.30 0800	12.17	LF	1520										FT		1520	FT	18498	
	End Section	End Section	02 41 13.20 0200	34.15	EA.										8	EA		8	EA	273	
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				18771
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				18771

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	
	Underground Pipes 22																				
	Structure's Demolition Cost																				0
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				0

Note: Will remain in place at the time of reclamation

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	
	Chain Link Fence 23																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Fence Demolition	Chain link, post & fabric 8' 10' high remove only	02 41 13.60 1700	3.07	FT	1500										FT		1500	FT	4605	
	Subtotal																				4605
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				4605





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	
	Mine Parking 26																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs	Transportation to Nielson Dump	Scamp	13.63	/Ton													241	Ton	3285	
	Disposal Costs	Nielson Construction	Nielson	7.00	/Ton								1			CY/Ton		241	Ton	1687	
	Subtotal																				4972
	Employee Parking	Pavement Removal 4' to 6"	02 41 13.1	7.12	SY	100	200	3								SY IN	1.3	2222 241	SY CY		15821
	Subtotal																				15821
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				20793

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 Tanks 27																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			0
	Equipment Disposal Cost																			
	Tank Removal	3000 to 5000 gal. tank	02 65 10.30 0110	760.00	EA										3	EA		3	EA	2280
	Remove Sludge	3000 to 5000 gal. tank	02 65 10.30 0300	230.50	EA										3	EA		3	EA	692
	Subtotal																			2972
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			2972

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
	Powder & Cap Magazine 28																			
	Structure's Demolition Cost	Mechanical Equipment Heavy	23 05 05.10 3600	795.00	Ton							4				Ton		4	Ton	3180
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			3180
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			3180

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	
	Culverts 29																				
DC-1	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	60	1.5	3											10	CY	14
DC-1	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	60	1.5	3											10	CY	18
DC-2	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	60	1.5	3											10	CY	14
DC-2	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	60	1.5	3											10	CY	18
DC-3	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	65	1.5	3											11	CY	16
DC-3	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	65	1.5	3											11	CY	19
DC-4	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	400	2	3											89	CY	128
DC-4	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	400	2	3											89	CY	159
DC-5	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	350	2	3											78	CY	112
DC-5	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	350	2	3											78	CY	139
DC-6	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	107	2	3											24	CY	34
DC-6	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	107	2	3											24	CY	43
DC-7	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	155	2	3											34	CY	50
DC-7	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	155	2	3											34	CY	62
DC-8	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	167	2	3											37	CY	53
DC-8	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	167	2	3											37	CY	66
DC-9	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	186	2	3											41	CY	60
DC-9	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	186	2	3											41	CY	74
DC-10	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	60	2	3											13	CY	19
DC-10	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	60	2	3											13	CY	24
DC-11	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	101	2	3											22	CY	32
DC-11	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	101	2	3											22	CY	40
DC-12a	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	140	2.5	3.5											45	CY	65
DC-12a	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	141	2.5	3.5											46	CY	82
DC-12b	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	79	2.5	3											22	CY	32
DC-12b	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	79	2.5	3											22	CY	39
DC-12c	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	357	2.5	3											99	CY	143
DC-12c	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	357	2.5	3											99	CY	178
DC-12d	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	9	2.5	3.5											3	CY	4
DC-12d	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	9	2.5	3.5											3	CY	5
DC-13	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	60	1.5	3											10	CY	14
DC-13	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	60	1.5	3											10	CY	18
DC-14	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	40	1.5	3											7	CY	10
DC-14	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	40	1.5	3											7	CY	12
DC-15	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	45	1.5	3											8	CY	11
DC-15	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	45	1.5	3											8	CY	13
DC-16	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	25	1.5	3											4	CY	6
DC-16	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	25	1.5	3											4	CY	7
DC-17	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	120	1.5	3											20	CY	29
DC-17	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	120	1.5	3											20	CY	36
DC-18	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	27	1.5	3											5	CY	8
DC-18	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	27	1.5	3											5	CY	8
SP2-1	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	165	1.5	3											28	CY	40
SP2-1	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	165	1.5	3											28	CY	49
UC-1	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	120	5	6											133	CY	192
UC-1	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	120	5	6											133	CY	239
UC-1a	Excavation Bulk Bank 2 CY (322BL)		31 23 16.42 0260	1.44	CY	360	5	6											400	CY	576
UC-1a	Backfill Trench Minimal Haul 2 1/4 CY		31 23 16.13 3080	1.79	CY	360	5	6											400	CY	716
	Subtotal																				2046
	Equipment's Disposal Cost																				3725
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Demolition Cost 36" CMP (5)	36" CMP (5)	02 41 13.40 0180	12.24	LF	365													365	FT	4468
	Demolition Cost 72" CMP (1)	72" CMP (1)	02 41 13.40 0200	34.25	LF	480													480	FT	16440
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				20908
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs					</															

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
	Lila Old Fan Portals 30																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Portal Sealing																			
	Old Horse Canyon Lila Fan Portals														2	EA				
	Seal Construction		JennChem	4320.00	EA													2	EA	8640
	Labor		JennChem	265.00	HR										8	HR		16	HR	4240
	Helicopter		Classic Helicopters	2774	/Day										10	/Day		2	Day	5548
	Helicopter		Classic Helicopters	2774	/Day			231.17	HR-Stand By						6	HR		12	Hrs	2774
	250 KW Diesel Generator		01 54 33.40 2800	807.60	/Day										5	Day		5	Day	4038
	Water Tank Portable		01 54 33.40 7660	17.30	/Day										5	Day		5	Day	87
	Subtotal																			25327
	Seal Lila South Portals														3	EA				
	Seal Construction		JennChem	4320.00	EA													3	EA	12960
	Labor		JennChem	265.00	HR										8	HR		24	HR	6360
	Helicopter		Classic Helicopters	2774	/Day										10	/Day		3	Day	8322
	Helicopter		Classic Helicopters	2774	/Day			231.17	HR-Stand By						9	HR		18	Hrs	4161
	250 KW Diesel Generator		01 54 33.40 2800	807.60	/Day										5	Day		5	Day	4038
	Water Tank Portable		01 54 33.40 7660	17.30	/Day										5	Day		5	Day	87
	Subtotal																			35928
	Seal Lila North Portals														3	EA				
	Seal Portals		JennChem	4320.00	EA													3	EA	12960
	Labor		JennChem	265.00	HR										8	HR		24	HR	6360
	Portal Backfilling					25	20	6				111	CY					333	CY	6360
	Equipment Cost	Front End Loader, 4WD, 3.5CY., 145 HP	01 54 33.20 4710	516.00	/Day															
	Total Equipment Cost	Equipment Operator, Medium	R.S.Means Back Page	51.10	HR							60	CY/HR					5.6	HR	527
				94.10	HR															
	Subtotal																			19847
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			81102

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	
	Pole Barn 31																				
	Structure's Demolition Cost	Steel Build.	02 41 16.13 0020	0.28	CF	50	30	10								FT		15000	CF	4200	
	Structure's Vol. Demolition																0.3	4500	CF		
	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 to Nielson Dump	Scamp	13.63	/Ton													40	Ton	545	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel	Nielson Construction	Nielson	7.00	/Ton								480			lb/cf		40	Ton	280	
	Subtotal																			5025	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	50	30	0.25										14	CY	252	
	Concrete Vol. Demolished																1.3	18	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													18	CY	30	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY													18	CY	194	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													18	CY	163	
	Subtotal																			639	
	Total																			5664	

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 32																			
	Structure's Demolition Cost	Silos, Selective Demolition	13 05 05.60 0050	1875.00	EA										1	EA		1	Ea	1875
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	To Scamp Yard./Salvage	Scamp Quote	135.00	Hr										3	Hr		3	Hr	405
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			2280
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	15.5	15.5	1			240					CF		9	CY	162
	Concrete Vol. Demolished																1.3	12	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													12	CY	20
	Transportation Costs	12 CY (16 Ton) Dump Truck	31 23 23.20 1025	10.80	CY													12	CY	130
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													12	CY	109
	Subtotal																			421
	Total																			2701

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 Cable 33																				
	Structure's Demolition Cost																				0
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				0

Note: Will remain in place at the time of reclamation

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 Stacking Tube 34																			
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	15	15	10								FT		2250	CF	630
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			630
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Foundation					30	30	1.33				44				CY				
	Tube											34				CY				
	Concrete Cost	Concrete Demolit	Scamp Excavation	18.00	CY														78	1404
	Concrete Vol. Demolished																1.3		101	
	Loading Costs	Front End Loader	31 23 16.42 1300	1.69	CY														101	171
	Transportation Costs	12 CY (16 Ton) D	31 23 23.20 1025	10.80	CY														101	1091
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														101	916
	Subtotal																			3582
	Total																			4212

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
	Visual Disconnect 35																			
	Structure's Demolition Cost																			
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	20	30	8								FT		4800	CF	1344
	Structure's Vol. Demolition	Steel Buld.	02 41 16.13 0020	0.28	CF	40	10	8								FT		3200	CF	896
	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 Drive																			
	Subtotal																			2240
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished	Mechanical Equipment Heavy	23 05 05.10 3600	795.00	Ton							1				Ton		3	Ton	2385
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			2385
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	4	6	0.5								FT		0.4	CY	7
	Concrete Vol. Demolished																1.3	1	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	1.69	CY													1	CY	2
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1025	10.80	CY													1	CY	11
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													1	CY	9
	Subtotal																			29
	Total																			4654

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
	Drop Box 36																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Take-up Pad																			
	Concrete Demolition																			
	Footing					4	4	1.5			4									
	Structure					2	2	3.44			2									
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY															
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY		31 23 16.42 1300	1.69	CY														
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip		31 23 23.20 1025	10.80	CY														
	Disposal Costs	On Site Disposal		02 41 16.17 4200	9.07	CY														
	Subtotal																			281
	First Bent																			
	Concrete Demolition																			
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY															
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY		31 23 16.42 1300	1.69	CY														
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip		31 23 23.20 1025	10.80	CY														
	Disposal Costs	On Site Disposal		02 41 16.17 4200	9.07	CY														
	Subtotal																			
	Total																			281

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	
	Abandon Concrete Room (2) 37																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Fence Demolition																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Demolition	Scamp Excavation	18.00	CY	15	20	10				222				CY		222	CY	3996	
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader	31 23 16.42 1300	1.69	CY													1.3		289	488
	Transportation Costs	12 CY (16 Ton) D	31 23 23.20 1025	10.80	CY															289	3121
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															289	2621
	Subtotal																				10226
	Total																				10226

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	
	<b>Median Barrier 38</b>																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	<b>Subtotal</b>																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	<b>Subtotal</b>																				
	<b>Median Barruer</b>		02 41 13.30 1600	10.71	FT	760													760	FT	8140
	<b>Subtotal</b>																				8140
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	<b>Subtotal</b>																				
	<b>Total</b>																				8140



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
	Graben Breakout (2) 40																			
	Structure's Demolition Cost	Steel Buld.	02 41 16.13 0020	0.28	CF	15	18		8		2160				2	EA		4320	CF	1210
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			1210
	Portal Sealing																			
	Seal Construction		JennChem	4320.00	EA													2	EA	8640
	Labor		JennChem	265.00	HR										8	HR		16	HR	4240
	Helicopter		Classic Helicopters	2774	/Day										10	Loads		2	Days	5548
	Helicopter		Classic Helicopters	2774	/Day	231.17									6	HR		12	HR	2774
	250 KW Diesel Generator		01 54 33.40 2800	807.60	/Day										5	Day		5	Days	4038
	Water Tank Portable		01 54 33.40 7660	17.30	/Day										5	Day		5	Days	87
	Subtotal																			25327
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			26537

Backfilling and Grading

Grading 1	<del>150988</del>	167764
Topsoil 2	<del>204280</del>	217749
Support 3	<del>78333</del>	53142
	<hr/>	
	433601	463846

	Equipment Cost	Hourly Operating Cost	Equipment Overhead	Operator;s Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost	New Cost
Horse Canyon Mine Lila Canyon Project Grading 1																
Load and Hual Backfill Material									33783				86.0			
631G (9-51)(2nd04)	2548.00	212.33		51.10	263.43	3	790.30	\$/HR	28928	CY	393	CY/HR	73.6	HR	58173	67936
D9R Semi-U EROPS (9-54 (2H04)	2392.00	199.33		51.10	250.43	1	250.43	\$/HR					73.6	HR	48434	21528
Subtotal													86.0		76606	89464
Spread and Compact Material																
Assume 4 passes , 8 mph, 10 in. lift													86.0			
D9R Semi-U EROPS (9-54 (2H04)	2392.00	199.33		51.10	250.43	1	250.43	\$/HR					73.6	HR	48434	21528
825G (6-13)(4Q03)	187.80	15.65		51.10	66.75	1	66.75	\$/HR					73.6	HR	4913	5738
Subtotal													86.0		23347	27266
Upper Road Area																
770 (20-11)(3Q03)	1861.00	155.08		43.20	198.28	1	198.28	\$/HR	5000	CY	289	CY/HR	17.3	HR	3431	
988 G EROPS (9-38)(3Q04)	3085.00	257.08		51.10	308.18	4	1232.73	\$/HR					17.3	HR	21328	
Cat 326 FL	1582.00	131.83		43.20	175.03	1	175.03	\$/HR					17.3	HR	15841	
D9R Semi-U EROPS (9-54 (2H04)	2392.00	199.33		51.10	250.43	1	250.43	\$/HR	5000	CY	120	CY/HR	41.7	HR	10435	
Subtotal															51034	
Total															150988	167764

	Equipment Cost	Hourly Operating Cost	Equipment Overhead	Operator's Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost	New Cost
Horse Canyon Mine Lila Canyon Project Topsoil 2																
Load and Hual Topsoil									61086				155.4			
631G (9-51)(2nd04)	2548.00	212.33		51.10	263.43	3	790.29	\$/HR	66000	CY	393	CT/HR	442.5	HR	442644	122839
D9R Semi-U EROPS (9-54 (2H04)	2392.00	199.33		51.10	250.43	1	250.43	\$/HR					442.5	HR	36685	38926
Subtotal													155.4		448296	161765
770 (20-11)(3Q03)	1861.00	155.08		49.15	204.23	1	204.23	\$/HR	10000	CY	289	CY/HR	34.6	HR	7067	
988 G EROPS (9-38)(3Q04)	3085.00	257.08		51.10	308.18	4	1232.72	\$/HR					34.6	HR	42655	
Cat 326 FL	1582.00	131.83		49.15	180.98	1	180.98	\$/HR					34.6	HR	6262	
Subtotal															55984	
Total															204280	217749

	Equipment Cost	Hourly Operating Cost	Equipment Overhead	Operator:s Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost	New Cost
Horse Canyon Mine Lila Canyon Project Support 3 Support														
											335			
6000 Ga. H2O Truck Diesel 2nd2008)	1168.00	97.33		49.15	146.48	1	146.48				<del>384.2</del>	HR	56279	49072
Pick-up Truck 4x4 1 Ton	145.80	12.15			12.15	1	12.15				<del>384.2</del>	HR	4668	4070
Foreman Outside					51.90	1	51.90				335	HR	47387	17387
Total													<del>78333</del>	53142

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	New Area	Volume	Density	Time	Number	Unit	Swell Factor	New Quantity	Quantity	Unit	Cost	New cost
	Vegetation																					
	Ground Preparation																					
	See Chapter 5 page 95-96, Sec. 553.230																					
	Soil to be ripped	75 HP Dozerw/scarifier	32 91 13.23 3100	3.93	MSF					34	32.94					AC	1435		1481	MSF	5820	5640
	Goughing/Pocking																					
	Assume 340 Cy/AC	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.44	CY					34	32.94					AC	1435		11560	CY	46646	2066
	Subtotal																				22467	7706
	Seeding																					
	Fertilizer Material	Fertilizer Hydro Spreader Mat. Only	32 01 90.13 0180	4.30	MSF					34	32.94					AC	1435		1481	MSF	6268	6171
	Seeding Materials	Grasses for Lila Canyon	Great Basin	164.70	AC					34	32.94					AC	32.94		34	AC	5600	5425
	Seeding Materials	Forbs for Lila Canyon	Great Basin	42.55	AC					34	32.94					AC	32.94		34	AC	1447	1402
	Seeding Materials	Shrubs for Lila Canyon	Great Basin	85.33	AC					34	32.94					AC	32.94		34	AC	2901	2811
	Seeding Application	Hvdro Spreader (equip. & labor)B-81 80MSF	32 01 90.13 0180	4.99	MSF					34	32.94					AC	1435		1481	MSF	7390	7161
	Mulch Application	Seeding Hydro spread	32 01 90.13 0180	4.99	MSF					34	32.94					AC	1435		1481	MSF	7390	7161
	Subtotal																				34097	30131
	Reseeding	Reseeding 25%																				
	Assume 50% reseeding rate																				45548	15066
	Subtotal																				45548	
	Total																				69442	52903