

Canyon Fuel Company, LLC  
Dugout Canyon Mine  
P.O. Box 1029  
Wellington, Utah 84542



August 18, 2005

*Income  
C/007/00398  
#2310*

Ms. Pamela Grubaugh-Littig  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

RE: Revisions to M&RP – Bond Calculations Revised to Include Degas Wells G-8, G-9 & G-10 and Escalate Bond to 2010 Dollars. Dugout Canyon Mine, Canyon Fuel Company, LLC, C/007/039, Carbon County, Utah

Dear Ms. Grubaugh-Littig:

Attached please find four copies of the revisions to the reclamation bond for Dugout Canyon Mine. The revisions have been made to include bond coverage for Degas Wells G-8 thru G-10. In addition we have escalated the bond to 2010 dollars per a conversation with Wayne Western concerning a mid-term review scheduled for September 2005.

A copy of this amendment has been delivered to the Price Field Office.

Thank you for your assistance and if you have any questions please call me at (435) 636-2869.

Sincerely yours,  
*Vicky S. Miller*  
Vicky S. Miller

cc: Dave Spillman  
Pete Hess

file In C *0070039* *Income*  
Date: *08/18/2005* Refer to:

- Confidential
  - Shelf
  - Expandable
- For additional information

RECEIVED

AUG 18 2005

DIV. OF OIL, GAS & MINING

# APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** Canyon Fuel Company, LLC

**Mine:** Dugout Canyon Mine

**Permit Number:** C/007/039

**Title:** Bond Revision to include Degas Wells G-8, G-9 & G-10 and Escalate Bond to 2010 Dollars

**Description:** Include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes  No 1. Change in the size of the Permit Area? Acres: \_\_\_\_\_ Disturbed Area: 4.8  increase  decrease.
- Yes  No 2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does the application require or include public notice publication?
- Yes  No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No 9. Is the application submitted as a result of a Violation? NOV # \_\_\_\_\_
- Yes  No 10. Is the application submitted as a result of other laws or regulations or policies?

*Explain:* \_\_\_\_\_

- Yes  No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No 13. Does the application require or include collection and reporting of any baseline information?
- Yes  No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 15. Does the application require or include soil removal, storage or placement?
- Yes  No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No 19. Does the application require or include certified designs, maps or calculation?
- Yes  No 20. Does the application require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided?
- Yes  No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

**Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you.** (These numbers include a copy for the Price Field Office)

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.

David Spillman  
Print Name

David Spillman, Engineering Manager  
Sign Name/Position, Date

Subscribed and sworn to before me this 18 day of August, 2005

Vicky Sue Miller  
Notary Public

My commission Expires: 1-5, 2008  
Attest: State of UTAH } ss:  
County of CARBON



<b>For Office Use Only:</b>	<b>Assigned Tracking Number:</b>	<b>Received by Oil, Gas &amp; Mining</b>  <div style="font-size: 2em; font-weight: bold; margin: 10px 0;">RECEIVED</div> <div style="font-size: 1.5em; font-weight: bold; margin: 5px 0;">AUG 18 2005</div> <div style="font-weight: bold; margin: 5px 0;">DIV. OF OIL, GAS &amp; MINING</div>
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Canyon Fuel Company, LLC  
SCM/Dugout Canyon Mine

Mining and Reclamation Plan  
August 2005

**APPENDIX 5-6**

Reclamation Bond Estimate

## Bonding Calculations

## Direct Costs

Subtotal Demolition and Removal	\$772,710.00
Subtotal Backfilling and Grading	\$551,775.00
Subtotal Revegetation	\$337,210.00
Direct Costs	\$1,661,695.00

## Indirect Costs

Mob/Demob	\$166,170.00	10.0%
Contingency	\$83,085.00	5.0%
Engineering Redesign	\$41,542.00	2.5%
Main Office Expense	\$112,995.00	6.8%
Project Mainagement Fee	\$41,542.00	2.5%
Subtotal Indirect Costs	\$445,334.00	26.8%

Total Cost	\$2,107,029.00
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Escalation factor	0.0259
Number of years	5
Escalation	\$287,365.00

Reclamation Cost Escalated	\$2,394,394.00
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Bond Amount (rounded to nearest \$1,000) 2010 Dollars	\$2,394,000.00
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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Belt BC-1 No 1																			15493
	Transfer Building No 2																			27938
	Feed Belt BC 2 No3																			10648
	Stack Tubes 2 No4																			3175
	Head House 1 No 5																			5248
	Transfer Belt BC 2 No 6																			9687
	Head House 2 No 7																			1359
	Reclaim Tunnel No 8																			29098
	Reclaim Belt BC 4 No 9																			9755
	Escape Tunnel 60 inch No 10																			780
	Crusher Building No 11																			25336
	Truck Loadout Belt BC 5 No 12																			7956
	Truck Loadout and Scale No 13																			20600
	Bathhouse No 14																			111344
	Substation No 15																			1489
	Power Lines and Poles No 16																			1958
	Retaining Wall No 17																			603
	Gabion Wall No 18																			57513
	Pump House No 19																			2315
	Paved Road No 20																			50547
	Stream Culvert 72 inch No 21																			45027
	Water Tanks No 22																			2899
	Rock Dust Bin No 23																			915
	Fuel Tank and Fuel Station No 24																			1336
	Holding Tank No 25																			318
	Ventilation Fan No 26																			1842
	Magnet 27																			434
	Water System 28																			71041
	Sewage System 29																			23808
	Item 30 removed																			
	Storage Containers 31																			7590
	Gilson Well No 32																			1294
	Shop Building No 33																			4014
	Switch House No 34																			989
	Portals No 35																			28000
	Storage Building No 36																			1531
	Sampling System No 37																			1280
	Degas Well G4 No 38																			7554
	Degas Well G2 No 39																			12054
	Degas Well G3 No 40																			8302
	Stoker Storage Bin No 41																			711
	Substation No 2 No 42																			2194
	Gabion Baskets No 43																			970
	Methane Degas Wells 45																			30000
	Degas Well G 6 MW 06																			6385
	Degas Well G 5 MW 05																			9051
	Pace Fan Culvert																			1688
	Pace Fan Generator																			48785
	Pace Fan Portal																			5200
	Refuse Site No 44																			8490
	Degas WellG7																			14274
	Degas WellG8																			8724
	Degas WellG9																			14472
	Degas WellG10																			12170

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 Belt BC-1 No 1																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						62800					CF		62800	CF	12560
	Structure's Vol. Demolished																0.35	814	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											52				TON		52	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3.3		DAY		3.3	DAY	1439
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR									28		HR		28	HR	1092
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						20					CY		20	CY	79
	Concrete's Vol. Demolished																1.3	26	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													26	CY	36
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													26	CY	89
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													26	CY	198
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Transfer Building No 2																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						104618					CF		104618	CF	20624
	Structure's Vol. Demolished																0.35	1356	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											50				TON		50	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										3.1	DAY		3.1	DAY	1351
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	442.00	/HR										25	HR		25	HR	1050
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	3.97	/CY						229					CY		229	CY	909
	Demolition Cost																			
	Concrete's Vol. Demolished																1.3	298	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1900	1.39	/CY													298	CY	414
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trj	02315 490 0320	3.44	/CY													298	CY	1025
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													298	CY	2285
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Feed Belt BC 2 No3																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						47438					CF		47438	CF	9488
	Structure's Vol. Demolished																0.35	615	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											30				TON		30	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1.9		DAY		1.9	DAY	828
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR									15		HR		15	HR	630
	Disposal Cost Steel																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Stack Tubes 2 No4																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						158					CY				
	Concrete's Vol. Demolished																	158	CY	627
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1.3	205	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trj	02315 490 0320	3.44	/CY														205	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														205	CY
																			205	CY
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Head House 1 No 5																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						23878					CF		23878	CF	4776
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																0.35	310	CY	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity											10				TON		10	TON	
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day															
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trmv	\$42.00	HR									0.6		DAY		0.6	DAY	262
	Disposal Cost Steel													5		HR		5	HR	210
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Transfer Belt BC 2 No 6																				
	Structure's Demolition Cost	Steel Bid, Large	02220 110 0012	0.2	/CF						30000					CF		30000	CF	6000	
	Structure's Vol. Demolished																	0.35	389	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											20				TON			20	TON	
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/hr																
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Triv	\$42.00	HR										1.3	DAY			1.3	DAY	567
	Disposal Cost Steel														10	HR			10	HR	420
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Head House 2 No 7																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						4438					CF		4438	CF	887
	Structure's Vol. Demolished																0.35	58	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											10				TON		10	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.06	/day									0.8		DAY		0.8	DAY	262
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	HR									5		HR		5	HR	210
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Reclaim Tunnel No 8																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						18774					CF		18774	CF	3755
	Structure's Vol. Demolished																0.35	243	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steer's Weight											32				TON		32	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										2	DAY		2	DAY	872
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR										16	HR		16	HR	672
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						1182					CY		1182	CY	4693
	Concrete's Vol. Demolished																1.3	1537	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															2136
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY															5287
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															11681
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Reclaim Belt BC 4 No 9																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						35180					CF		35180	CF	7036	
	Structure's Vol. Demolished																0.35	456	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											40				TON		40	TON		
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.00	/day									2.5		DAY		2.5	DAY	1080	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trmv	\$42.00	HR									20		HR		20	HR	840	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						39					CY		39	CY	155	
	Concrete's Vol. Demolished																1.3	51	CY		
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													51	CY	71	
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rd. tr	02315 490 0320	3.44	/CY													51	CY	175	
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													51	CY	388	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Escape Tunnel 60 inch No 10										2827					CF		2827	CF	585
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF												0.35	37	CY	
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight											4				TON		4	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.3		DAY		0.3	DAY	131
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trt1v	\$42.00	HR									2		HR		2	HR	84
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Crusher Building No 11																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						93305					CF		93305	CF	18661
	Structure's Vol. Demolished																0.35	1210	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											100				TON		100	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									6.3		DAY		6.3	DAY	2747
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trmv	\$42.00	HR									50		HR		50	HR	2100
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						91					CY		91	CY	361
	Concrete's Vol. Demolished																1.3	118	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															164
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY															408
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															867
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Truck Loadout Belt BC 5 No 12																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						30899					CF		30899	CF	6180
	Structure's Vol. Demolished																0.35	401	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											20				TON		20	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1.3		DAY		1.3	DAY	567
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Triv	\$42.00	HR									10		HR		10	HR	420
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	3.97	/CY						39					CY		39	CY	155
	Demolition Cost																			
	Concrete's Vol. Demolished																1.3	51	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															71
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY															175
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															388
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Truck Loudout and Scale No 13																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						74978					CF		74978	CF	14995
	Structure's Vol. Demolished																0.35	972	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											50				TON		50	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										3.1	DAY		3.1	DAY	1351
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	/HR										25	HR		25	HR	1050
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	3.97	/CY						159							159	CY	631
	Demolition Cost																			
	Concrete's Vol. Demolished																1.3	207	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															288
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY															712
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															1573
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Bathroom No 14																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						416365					CF		416365	CF	83273
	Structure's Vol. Demolished																0.2	3084	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	City Services	City Service Price	4	/CY													3084	CY	12336
	Steel's Weight											107								
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									6.7		DAY		6.7	DAY	2921
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	/HR									54		HR		54	HR	2268
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						524					CY		524	CY	2080
	Concrete's Vol. Demolished																1.3	881	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													881	CY	947
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rd. tr	02315 490 0320	3.44	/CY													881	CY	2343
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													881	CY	5178
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Substation No 15																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						4000					CF		4000	CF	800	
	Structure's Vol. Demolished																	0.35	52	CY	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	City Services	City Service Price	4	/CY														52	CY	208
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						24					CY		24	CY	95	
	Concrete's Vol. Demolished																	1.3	31	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY														31	CY	43
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 ml. md. tri	02315 490 0320	3.44	/CY														31	CY	107
	Disposal Costs	On site disposal	02220 240 5550	7.8	/CY														31	CY	236
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Power Lines and Poles No 16																				
	Structure's Demolition Cost	Dugout Powerline	Dugout 1	0.23	/FT	1937															
	Structure's Vol. Demolished															FT		1937	FT		448
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Power Poles																				
	Equipment's Disposal Cost	Dugout Power Poles	Dugout 2	126	/EA																
	Dismantling Cost																				
	Equipment's Vol. Demolished															EA		12	EA		1512
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Retaining Wall No 17																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						30					CY		30	CY	119	
	Concrete's Vol. Demolished																	1.3		39	CY
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															39	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 ml. rd. tri	02315 490 0320	3.44	/CY															39	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															39	CY
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Gabion Wall No 18																				
	Structures Volume										880										
	Demolition Time 60 CY/ DAY															CY					
	Structure's Demolition Cost	Crew B 13	MeansCrewB13	395.16											117	HR					
	Structure's Vol. Demolished																		117	HR	46234
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day																
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trtv	\$42.00	HR										14.6	DAY			14.6	DAY	6365
	Disposal Cost Non Steel														117	HR			117	HR	4914
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Pump House No 19																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						2219					CF		2219	CF	444
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight											5				TON		5	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.96	/day										0.3	DAY		0.3	DAY	131
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trtv	\$42.00	HR										2	HR		2	HR	84
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						82					CY		82	CY	326
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1.3	107	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 ml. md. tri	02315 490 0320	3.44	/CY														107	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														107	CY
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Paved Road No 20																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Asphalt Demolition																			
	Demolition Cost	Pavement Removal 4-8"	02220 250 5050	6.55	/SY					6783						SY		6783	SY	44429
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs	On site disposal	02220 240 5550	7.8	/CY						805					CY		805	CY	6118
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Stream Culvert 72 inch No 21																			
	Excavate Culvert	Excavation Bulk Bank 2 CY (322BL)	02315 424 0280	1.7	/CY	2350	12	12								CF		12533	CY	21308
	Backfill Culvert	Backfill Trench Minimal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	2350	12	12								CF		12533	CY	19175
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight											94				TON		94	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										5.9	DAY		5.9	DAY	2572
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trtv	\$42.00	HR										47	HR		47	HR	1974
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Water Tanks No 22																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						241					CF	0.35	241	CF	48	
	Structure's Vol. Demolished																	3	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											39				TON		39	TON		
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										2.4	DAY		2.4	DAY	1048	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	/HR										19	HR		19	HR	798	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						50					CY		50	CY	199	
	Concrete's Vol. Demolished																	1.3			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY														65	CY	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. tri	02315 490 0320	3.44	/CY														65	CY	
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														65	CY	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Rock Dust Bin No 23																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						2285					CF		2285	CF	453	
	Structure's Vol. Demolished																	0.35	29	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											5				TON			5	TON	
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.98	/day										0.3	DAY			0.3	DAY	131
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR										2	HR			2	HR	84
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						12					CY			12	CY	48
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY														1.3	16	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 480 0320	3.44	/CY															16	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															16	CY
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Fuel Tank and Fuel Station No 24																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						3945					CF		3945	CF	789
	Structure's Vol. Demolished																0.35	51	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											7				TON		7	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.4		DAY		0.4	DAY	174
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	/HR									3		HR		3	HR	128
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo 1	3.97	/CY						12					CY		12	CY	48
	Concrete's Vol. Demolished																1.3	16	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													16	CY	22
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													16	CY	55
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													16	CY	122
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			

Demolition Costs

Dugout Canyon Mine C/007/039

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
	Holding Tank No 25																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck															1 EA			1 EA	232
	Transportation Cost Non Steel Drive															2 TON			2 TON	
	Disposal Cost Non Steel	6000 gal. to 8000 gal. tank	02115 200 0310		232 Ea.								2							
	Steel's Weight																			
	Truck's Capacity														0.1	DAY			0.1 DAY	44
	Haulage														1	HR			1 HR	42
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300		435.98 /day															
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Tftrv		\$42.00 /HR															
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Ventilation Fan No 28																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						6850					CF		6850	CF	1370	
	Structure's Vol. Demolished																0.35	89	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel											10				TON		10	TON		
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.6		DAY		0.6	DAY	262	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trtv	\$42.00	HR									5		HR		5	HR	210	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Magnet 27																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						35					CF		35	CF	7	
	Structure's Vol. Demolished																	0.35	0	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											2				TON			2	TON	
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.98	/day										0.1	DAY			0.1	DAY	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Tthv	\$42.00	HR										1	HR			1	HR	
	Disposal Cost Steel																			42	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo 1	3.97	/CY						17					CY			17	CY	
	Concrete's Vol. Demolished																	1.3	22	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY															22	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. tr	02315 490 0320	3.44	/CY															31	
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															78	
	Subtotal																			167	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Water System 28																			
	Excavate Pipe	Excavation Bulk Bank 2 CY (322BL)	02315 424 0280	1.7	/CY	8450	2	4												
	Pipe Removal	Pipe removal 12 inch	02220 240 2900	7.45	/FT	8450										FT		2504	CY	4257
	Backfill Trench	Backfill Trench Minimal Haul 2 1/4 CY	02315 810 3080	1.53	/CY	8450	2	4								FT		8450	FT	82953
	Structure's Vol. Demolished															FT		2504	CY	3831
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Sewage System 29																			
	Excavate Pipe	Excavation Bulk Bank 2 CY (322BL)	02315 424 0280	1.7	/CY	2832	2	4								FT		839	CY	1426
	Pipe Removal	Pipe removal 12 Inch	02220 240 2800	7.45	/FT	2832										FT		2832	FT	21098
	Backfill Trench	Backfill Trench Minimal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	2832	2	4								FT		839	CY	1284
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	AM01J Nov. 28, 2001																			
	Storage Containers 31																			
	Trailers NO 1																			
	Structure's Demolition Cost	Mixed Materials Bld. Large	02220 110 0100	0.21	/CF	40	10	10							8	FT	0.35	32000	CF	6720
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	ECDC	ECDC	35	/TON							24						24	TON	840
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Wilson Well No 32																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						800					CF		800	CF	180
	Structure's Vol. Demolished																0.35	10	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											0.5				TON		0.5	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.96	/day									0.03		DAY		0.03	DAY	13
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trmv	\$42.00	HR									0.2		HR		0.2	HR	8
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						55					CY		55	CY	218
	Concrete's Vol. Demolished																1.3	72	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													72	CY	100
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tr	02315 490 0320	3.44	/CY													72	CY	248
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													72	CY	547
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Shop Building No 33																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						14400					CF		14400	CF	2880	
	Structure's Vol. Demolished																0.35	187	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											0.5				TON		0.5	TON		
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.96	/day									0.03		DAY		0.03	DAY	13	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Tfrv	\$42.00	/HR									0.2		HR		0.2	HR	8	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						55					CY		55	CY	218	
	Concrete's Vol. Demolished																1.3	72	CY		
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 480 0320	3.44	/CY															100	
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY															248	
																				547	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Switch House No 34																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96/day																
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Tfrv	\$42.00/HR											1	DAY			1 DAY	436
	Disposal Cost Steel														8	HR			8 HR	336
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo 1	3.97 /CY																
	Concrete's Vol. Demolished										11								11 CY	44
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39 /CY															1.3	14 CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 ml. md. tri	02315 490 0320	3.44 /CY																14 CY
	Disposal Costs	On site disposal	02220 240 5550	7.6 /CY																14 CY
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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	
	Portals No 35																				
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.																
	Structure's Vol. Demolished															5	EA		5	EA	26000
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Storage Building No 36																				
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						2284					CF		2284	CF	457	
	Structure's Vol. Demolished																0.35	30	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											6				TON		6	TON		
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.4		DAY		0.4	DAY	174	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	HR									3		HR		3	HR	126	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						38.4					CY		38.4	CY	152	
	Concrete's Vol. Demolished																1.3	50	CY	70	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 ml. md. tri	02315 490 0320	3.44	/CY																
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY																
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Sampling System No 37																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel											18				TON		18	TON		
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1.1		DAY		1.1	DAY	480	
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR									9		HR		9	HR	378	
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						19.84					CY		19.84	CY	79	
	Concrete's Vol. Demolished																	1.3	26	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY														26	CY	36
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tr	02315 480 0320	3.44	/CY														26	CY	89
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														26	CY	198
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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
	Degas Well G4 No 38																			
	Grade and Backfill	Front end loader 3 CY	02315 424 1300	1.39	/CY						218					CY		218	CY	303
	Fill in Mud Pit	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864
	Spread Topsoil	Front end loader 3 CY	02315 424 1300	1.39	/CY						750					CY		750	CY	1043
	Spread Topsoil	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY											CY		0	CY	0
	Fence																			
	Remove Barbed Wire					551										FT		551	FT	854
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day															
	Foreman	Foreman Average, Outside	Foreman	\$57.30	/HR											8 hr			1 day	80
																8 hr			8 hr	458

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
	Degas Well G2 No 39																			
	Grade and Backfill	Front end loader 3 CY	02315 424 1300	1.39	/CY						378					CY		378	CY	525
	Fill in Mud Pit	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864
	Spread Topsoil	Front end loader 3 CY	02315 424 1300	1.39	/CY						3104					CY		3104	CY	4315
	Spread Topsoil	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY											CY		0	CY	0
	Subtotal																			
	Fence																			
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1600	1.55	/LF	1200										FT		1200	FT	1860
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day											8 hr			1 day	80
	Foreman	Foreman Average, Outside	Foreman	\$57.30	HR											8 hr			8 hr	458

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
	Degas Well G3 No 40																			
	Grade and Backfill	Front end loader 3 CY	02315 424 1300	1.39	/CY						412					CY		412	CY	573
	Fill in Mud Pit	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3884
	Spread Topsoil	Front end loader 3 CY	02315 424 1300	1.39	/CY						1104					CY		1104	CY	1535
	Spread Topsoil	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY											CY		0	CY	0
	Fence																			
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1800	1.55	/LF	542										FT		542	FT	840
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day											8 hr		1	day	80
	Foreman	Foreman Average, Outside	Foreman	\$57.30	/HR											8 hr		8	hr	458

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	
	Stoker Storage Bin No 41																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						35					CY		35	CY	139	
	Concrete's Vol. Demolished																1.3	48	CY		
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													48	CY	64	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													48	CY	158	
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													48	CY	350	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Substation No 2 No 42																				
	Structure's Demolition Cost	Mixed Materials Bld. Large	02220 110 0100	0.21	/CF						4000					CF		4000	CF	840	
	Structure's Vol. Demolished																0.35	52	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	City Services	City Service Price	4	/CY														52	CY	208
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo 1	3.97	/CY						57					CY		57	CY	226	
	Concrete's Vol. Demolished																1.3	74	CY		
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY														74	CY	103
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. tri	02315 490 0320	3.44	/CY														74	CY	255
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														74	CY	562
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Methane Degas Wells 45																				
	Structure's Demolition Cost	Plug Well	AML3	5000	EA.										6	EA		6	EA	30000	
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Fence																				
	Silt Fence	Silt fence	02370 700 1100	1.05	LF											FT		0	FT	0	
	Chicken Wire Fence	Fence Chicken Wire	02820 410 0012	4.57	LF											FT		0	FT	0	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	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	
	Degas Well G 6 MW 06																				
	Grading and Backfill	Front end loader 3 CY	02315 424 1300	1.39	/CY						792										
	Fill Mud Pit	Backfill structural 300 HP 50' Dirt	02315 120 5020	0.65	/CY						622					CY		622	CY	404	
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864	
	Spread Topsoil	Backfill structural 300 HP 50' Dirt	02315 120 5020	0.65	/CY						792					CY		792	CY	515	
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1600	1.55	/LF	860										LF		860	LF	1333	
	Support																				
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day																
	Foreman	Foreman Average, Outside	Foreman	\$57.30	HR											8 hr			1 day	80	
																8 hr			8 hr	458	



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
	Pace Fan Culvert																			
	Excavate Culvert	Excavation Bulk Bank 2 CY (322BL)	02315 424 0280	1.7	/CY	595	3	6										397	CY	675
	Backfill Culvert	Backfill Trench Minimal Haul 2 1/4 CY	02315 810 3080	1.53	/CY	595	3	6										397	CY	607
	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											8.5				ton				
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 18 ton payload	01590 200 5300	435.96	/day										0.5	Day		0.5	Day	218
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trfv	\$42.00	HR										4	HR		4	HR	168
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Pace Fan Generator																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	25	25	12												
	Structure's Vol. Demolished																	7500	CF	1500
	Rubble's Weight (exclude steel)																0.35	97	CY	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity											0							0	TON
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										0				0	DAY
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	/HR										0				0	HR
	Disposal Cost Steel																		0	HR
	Equipment's Disposal Cost																			
	Ducting	Mechanical equipment heavy	15055 300 3800	805	/ton							35							35	ton
	Fan	Mechanical equipment heavy	15055 300 3800	805	/ton							10							10	ton
	Hiltiker Mesh	Mechanical equipment heavy	15055 300 3800	805	/ton							0.7							0.7	ton
	Portal plate liner	Mechanical equipment heavy	15055 300 3800	805	/ton							1.2							1.2	ton
	Total steel weight											46.9								
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day										0.6				0.6	DAY
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trhv	\$42.00	/HR										5				5	HR
	Portal plate liner																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY							70							70	CY
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1.3	91	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY														91	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														91	CY
	Generator Pad																		91	CY
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY							128							128	CY
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1.3	166	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY														166	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														166	CY
	Fan Building																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY							252							252	CY
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1.3	328	CY
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY														328	CY
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY														328	CY

Demolition Costs

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Pace Fan Portal																			
	Seal Portal																			
	Structure's Vol. Demolished	Seal Portals																		
	Rubble's Weight (exclude steel)		AML1		5200	EA														
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive															1	EA			
	Disposal Cost Non Steel																		1	EA
	Steel's Weight																			5200
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	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
	Degas Well G 7																			
	Grading and Backfill		02315 424 1300	1.39	/CY						2345					CY		2345	CY	3200
	Fill Mud Pit	Backfill structural 300 HP 50' Dirt	02315 610 3060	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864
	Spread Topsoil	Backfill structural 300 HP 50' Dirt	02315 120 5020	1.39	/CY						2345					CY		2345	CY	3200
	Spread Topsoil	Backfill Trench Minimal Haul 2 1/4 CY	02315 610 3060	1.53	/CY											CY			CY	0
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1600	1.55	/LF	1200										LF		1200	LF	1860
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	"/day															
	Foreman	Foreman Average Outside	Foreman	57.3	HR										16	hr		2	day	161
															16	hr		16	hr	917

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
	Degas Well G8																			
	Grade and Backfill	Front end loader 3 CY	02315 424 1300	1.39	/CY						543					CY		543	CY	755
	Fill in Mud Pit	Backfill Trench Mininal Haul 2 1/4 CY	02315 810 3080	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864
	Spread Topsoil	Front end loader 3 CY	02315 424 1300	1.39	/CY						543					CY		543	CY	755
	Spread Topsoil	Backfill Trench Mininal Haul 2 1/4 CY	02315 810 3080	1.53	/CY											CY		0	CY	0
	Subtotal																			
	Fence																			
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1800	1.55	/LF	1200										FT		1200	FT	1860
	Subtotal																			
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day											8 hr		1	day	80
	Foreman	Foreman Average, Outside	Foreman	\$57.30	HR											8 hr		8	hr	458

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	
	Degas Well G 7																				
	Grading and Backfill		02315 424 1300	1.39	/CY						1574					CY		58	CY	78	
	Fill Mud Pit	Backfill structural 300 HP 50' Dirt	02315 610 3080	1.53	/CY						850					CY		850	CY	1301	
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3884	
	Spread Topsoil	Backfill structural 300 HP 50' Dirt	02315 120 5020	1.39	/CY						1574					CY		1574	CY	2188	
	Spread Topsoil	Backfill Trench Minimal Haul 2 1/4 CY	02315 610 3080	1.53	/CY											CY			CY	0	
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1800	1.55	/LF	3500										LF		3500	LF	5425	
	<b>Subtotal</b>																				
	Support																				
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	*/day											24	hr		3	day	241
	Foreman	Foreman Average Outside	Foreman	57.3	HR											24	hr		24	hr	1375

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
	Degas Well G 7																			
	Grading and Backfill		02315 424 1300	1.39	/CY						2345					CY		56	CY	78
	Fill Mud Pit	Backfill structural 300 HP 50' Dirt	02315 610 3080	1.53	/CY						622					CY		622	CY	952
	Plug Well Casing	Concrete Ready Mix 8000 psi	03310 220 0412	184	/CY						21					CY		21	CY	3864
	Spread Topsoil	Backfill structural 300 HP 50' Dirt	02315 120 5020	1.39	/CY						2345					CY		2345	CY	3280
	Spread Topsoil	Backfill Trench Minimal Haul 2 1/4 CY	02315 610 3080	1.53	/CY											CY			CY	0
	Remove Barbed Wire	Fencing Barbed wire 3 strand	02220 220 1800	1.55	/LF	1200										LF		1200	LF	1860
	Support																			
	Pickup Truck	Pickup Rental	01590 400 7200	80.42	/day											16 hr			2 day	161
	Foreman	Foreman Average Outside	Foreman	57.3	HR											16 hr			16 hr	917
	Support																			

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Facilities Area 01															308109
Facilities Area 02															119177
Stream Channel 03															32869
Gabion Basin 04															
Refuse Pile 05															71327
Pace Canyon Fan Portal															20293

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Dugout Mine Facilities Area 01 Cut and Fill at Mine Site															
<b>Equipment</b>															
<b>Rough Grading</b>															
D9R Semi-U EROPS (9-43) (3Q02)	17060	64.8	0.1	50.7	228.61	1	228.61	\$/HR	118169	CY	184	CY/HR	642.2	HR	146813
<b>Finished Grading</b>															
D9R Semi-U EROPS (9-43) (3Q02)	17060	64.8	0.1	50.7	228.61	1	228.61	\$/HR	19926	CY	680	CY/HR	29.3	HR	6698
815F ((6-13) (4Q03))	9140	35.35	0.1	50.7	146.71	1	146.71	\$/HR	58490	CY	876	CY/HR	66.6	HR	9800
CAT 345BL 2000 (10-21)(3Q03)	13965	55.25	0.1	50.7	198.76	1	198.76	\$/HR	10000	CY	308	CY/HR	32.5	HR	6460
966G EROPS (9-37) (3Q03)	6510	27	0.1	50.7	121.09	1	121.09	\$/HR	8342	CY	204	CY/HR	40.9	HR	4953
<b>Support Personnel and Labor</b>															
CLAB					40.5	1	40.5	\$/HR					642.2	HR	26009
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	\$/HR					642.2	HR	65113
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	\$/HR					642.2	HR	6653
Foreman Average, Outside					55.45	1	55.45	\$/HR					642.2	HR	35610
<b>Subtotal</b>															308100



	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Dugout Mine Stream Channel 03 Remove Culvert and Restore Channel															
CAT 330BL 2001 (10-21)(3Q03)	10530	42.6	0.1	50.7	163.37	1	163.37	\$/HR	14400	CY	310	CY/HR	46.5	HR	7597
CLAB					40.5	0.5	20.25	\$/HR					46.5	HR	942
966G EROPS (9-37) (3Q03)	6510	27	0.1	50.7	121.09	1	121.09	\$/HR	1500	CY	204	CY/HR	7.4	HR	896
CLAB					40.5	0.5	20.25	\$/HR					7.4	HR	150
6X4 70,000lbs 12-18 CY (20-1) (2Q03)	3590	25.8	0.1	40.3	91.12	1	91.12	\$/HR	7000	CY	50	CY/HR	140	HR	12757
CLAB					40.5	0.5	20.25	\$/HR					140	HR	2835
Support															
Foreman Average, Outside					55.45	1	55.45	\$/HR					46	HR	2551
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	\$/HR					46	HR	4664
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	\$/HR					46	HR	477





	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Pace Canyon Fan Portal															
Backfill Shaft															
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42	\$/HR	641	CY	216	CY/HR	3	HR	445
6X4 70,000lbs 12-18 CY (20-11) (1Q04)	3600	25.75	0.1	42	92.83	3	278.49						3	HR	835
Trucking Topsoil															
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42	\$/HR	922	CY	150	CY/HR	6.1	HR	905
6X4 70,000lbs 12-18 CY (20-11) (1Q04)	3600	25.75	0.1	42	92.83	13	1206.79						6.1	HR	7361
Backfill Portal															
D8R Series II Semi-U EROPS (9-55) (2nd04)	13720	53.4	0.1	52	196.49	1	196.49	\$/HR	331	CY	171	CY/HR	1.9	HR	373
Subsoil Placement															
D8R Series II Semi-U EROPS (9-55) (2nd04)	13720	53.4	0.1	52	196.49	1	196.49	\$/HR	4045	CY	90	CY/HR	44.9	HR	8822
Doze On -site Topsoil															
D8R Series II Semi-U EROPS (9-55) (2nd04)	13720	53.4	0.1	52	196.49	1	196.49	\$/HR	1206	CY	480	CY/HR	2.5	HR	491
Doze Trucked Topsoil															
D8R Series II Semi-U EROPS (9-55) (2nd04)	13720	53.4	0.1	52	196.49	1	196.49	\$/HR	922	CY	171	CY/HR	5.4	HR	1061

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
	Dugout Mine Vegetation																			155471
	Dugout Mine Refuse Pile																			84576
	Degas Well G2																			6135
	Degas Well G3																			5086
	Degas Well G4																			5086
	Degas Well G5																			5296
	Degas Well G6																			5086
	Degas Well G-7																			6086
	Degas Well G-8																			5086
	Degas Well G-9																			9956
	Degas Well G-10																			7921
	Degas Well G45																			33504
	Pace Canyon Fan Portal																			7921

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Dugout Mine Vegetation																			
	Soil Preparation																			
	Pocking	Excavation Bulk Bank 2 CY (322BL)	02315 424 0280	1.88	/CY					14.56						AC		23490	CY	39463
	Fence																			
	Silt Fence	Silt fence	02370 700 1100	1.01	LF	6800										FT		6800	FT	6888
	Chicken Wire	Fence Chicken Wire	02820 410 0012	6.55	LF	3400										FT		3400	FT	22270
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF					13.9						AC		605	MSF	11374
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC					13.9						AC		13.9	AC	5487
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton					13.9						AC		13.9	ton/AC	795
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC					13.9						AC		13.9	AC	4851
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea											#/AC		550	EA	9250
	Seed Mix No 2																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF					2.45						AC		107	MSF	2012
	Hydroseed Material	Dugout Seed Mix No 2	Dugout 07392S	711.25	/AC					2.45						AC		2.45	AC	1743
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton					2.45						AC		2.45	ton/AC	140
	Transplant Area No 2																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC					2.45						AC		2.45	AC	855
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea											#/AC		6500	EA	19299
	Reseeding																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Dugout Mine Refuse Pile																				
	Soil Preparation																				
	Pocking	Excavation Bulk Bank 2 CY (322BL)	02315 400 0280	1.73	/CY					15.6						AC		25188	CY	43541	
	Seed Mix No 1																				
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF					15.6						AC		680	MSF	12784	
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC					15.6						AC		15.6	AC	6158	
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton					15.6						AC		15.6	ton/AC	892	
	Transplant Area No 1																				
	Area																				
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC					15.6						AC		15.6	AC	5444	
	Transplant Labor	Bare root seedlings, 8" to 10"	02912 350 0711	1.21	Ea											400 #/AC		6240	EA	7550	
	Subtotal																				
	Reseeding																				
	Assume 25% reveg rate																				8207
	Subtotal																				



Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G3																			
	Soil Preparation																			
	Pocking	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY						1					AC		1613	CY	2790
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 60MS	Reveg002	18.8	/MSF						1					AC		44	MSF	827
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						1					AC		1	AC	395
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						1					AC		1	ton/AC	57
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea											#/AC		0	EA	0
	Reseeding																			
	Assume 25% reveg rate																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost			
	Degas Well G4																						
	Soil Preparation																						
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY						1								1613	CY	2790		
	Seed Mix No 1																						
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF						1												
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						1								44	MSF	827		
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						1								1	ton/AC	57		
	Transplant Area No 1																						
	Area																						
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC																		
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea															0	AC	0	
																					0	EA	0
	Reseeding																						

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G5																			
	Soil Preparation																			
	Pocking	Excavation Bulk Bank 2 CY (322BL)	02315 400 0280	1.73	/CY						1					AC		1613	CY	2790
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF						1					AC		44	MSF	827
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						1					AC		1	AC	395
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						1					AC		1	ton/AC	57
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	/Ea											#/AC		0	EA	0
	Subtotal																			1723
	Direct Vegetation																			
	Reseeding																			
	Subtotal																			1222
	Total																			2945

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G6																			
	Soil Preparation																			
	Pocking	Excavation Bulk Bank 2 CY (322BL)	02315 400 0280	1.73	/CY						1					AC		1613	CY	2780
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF						1					AC		44	MSF	827
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						1					AC		1	AC	395
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						1					AC		1	ton	57
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07381T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	/Ea											#/AC		0	EA	0
	Subtotal																			
	Direct Excavation																			
	Re seeding																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G7																			
	Soil Preparation																			
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY					1.25						AC		2017	CY	3489
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 60MSF/day	Reveg002	18.9	/MSF					1.25						AC		54	MSF	1015
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	364.76	/AC					1.25						AC		1.25	AC	493
	Hay Mutch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton					1.25						AC		1.25	ton/AC	72
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea											#/AC		0	EA	0
	Subtotal																			
	Dugout Expenses																			
	Re seeding																			
	Cost																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G8																			
	Soil Preparation																			
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY					1						AC		1813	CY	2790
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MSF/day	Reveg002	18.8	/MSF					1						AC		44	MSF	827
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC					1						AC		1	AC	395
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton					1						AC		1	ton/AC	57
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 8" to 10"	02912 350 0711	1.21	Ea											#/AC		0	EA	0
	Subtotal																			
	Reseeding																			



Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G10																			
	Soil Preparation																			
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73 /CY						1.7						AC		2743	CY	4745
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MSF/day	Reveg002	18.8 /MSF						1.7						AC		74	MSF	1391
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75 /AC						1.7						AC		1.7	AC	671
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2 /ton						1.7						AC		1.7	ton/AC	97
	Transplant Area No 1																			
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349 /AC												AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21 /Ea												#/AC		0	EA	0
	Reseeding																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Degas Well G45																			
	Soil Preparation																			
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY						8					AC		12907	CY	22329
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF						8					AC		348	MSF	6542
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						8					AC		8	AC	3158
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						8					AC		8	ton/AC	458
	Transplant Area No 1										8									
	Area																			
	Transplant Materials	Dugout Transplant Mix No 1	Dugout 07391T	349	/AC											AC		0	AC	0
	Transplant Labor	Bare root seedlings, 6" to 10"	02912 350 0711	1.21	Ea											550 #/AC		0	EA	0
	Reseeding																			

Ref.	Description	Materials	Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Pace Canyon Fan Portal																			
	Soil Preparation																			
	Packing	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY						1.7					AC		2743	CY	4745
	Seed Mix No 1																			
	Hydroseed Equipment and Labor	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	18.8	/MSF						1.7					AC		74	MSF	1391
	Hydroseed Material	Dugout Seed Mix No 1	Dugout 07391S	394.75	/AC						1.7					AC		1.7	AC	871
	Hay Mulch	Hay material only 02370 700 1200	Reveg001R	57.2	/ton						1.7					AC		1.7	ton/AC	97
	Subtotal																			2159
	Direct Vegetation																			6905
	Reseeding																			
	Assume 25% reseed rate																			