

C/007/0041  
Received 6/2/15  
Task ID #4905



**WEST RIDGE**  
RESOURCES, INC.

P.O. Box 910, East Carbon, Utah 84520 794 North "C" Canyon Rd, East Carbon, Utah 84520  
Telephone (435) 888-4000 Fax (435) 888-4002

Utah Division of Oil, Gas & Mining  
Utah Coal Program  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

June 2, 2015

Attn: Daron Haddock  
Permit Supervisor

Re: West Ridge Mine C/007/041  
WR15-004 Bond Calculations

Dear Mr. Haddock,

Attached you will find the application to replace the bonding cover sheet in the West Ridge Mine Permit. The first 4 had a total that did not match the bonding calculations. The total has been updated on the cover sheet to reflect the correct number.

If you have any questions, or need any additional information regarding this submittal, please contact me directly at 435-888-4026.

Sincerely,

Karin Odendahl  
Engineering Tech  
UtahAmerican Energy, Inc.

# APPLICATION FOR PERMIT PROCESSING

<input checked="" type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: ACT/007/41
Title of Proposal: WR 15-004 Bond Calculations						Mine: West Ridge
						Permittee: West Ridge Resources, Inc

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

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

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

Attach 1 complete digital copy of the application.

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

*[Signature]*  
 Signed - Name - Position - Date  
 Karin Odenahl / E.M.G. TECH / 6.2.15

Subscribed and sworn to before me this 2<sup>ND</sup> day of JUNE, 2015

*[Signature]*  
 Notary Public  
 My Commission Expires: 03.27.17  
 Attest: STATE OF Utah COUNTY OF Carson



Received by Oil, Gas & Mining
ASSIGNED TRACKING NUMBER



## Bonding Calculations

## Direct Costs

Subtotal Demolition and Removal	\$394,091.00
Subtotal Backfilling and Grading	\$891,440.00
Subtotal Revegetation	\$177,245.00
Direct Costs	\$1,462,776.00

## Indirect Costs

Mob/Demob	\$146,278.00	10.0%
Contingency	\$73,139.00	5.0%
Engineering Redesign	\$36,569.00	2.5%
Main Office Expense	\$99,469.00	6.8%
Project Management Fee	\$36,569.00	2.5%
Subtotal Indirect Costs	\$392,024.00	26.8%

Total Cost	\$1,854,800.00
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Escalation factor	0.015	1.50%
Number of years	5	
Escalation	\$143,346.00	

Reclamation Cost	\$1,998,146.00
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Bond Amount (rounded to nearest \$1,000)	\$1,998,000.00
2013 3rd QTR Dollars	

Bond Posted 2009	\$2,184,000.00
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Difference Between Cost Estimate and Bond	\$186,000.00
Percent Difference	9.31%



Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Shop Warehouse 01																				
		Structure's Demolition Cost	Building Demo steel with haul	24116130020	0.28	/CF	160	60	30								FT		288000	CF	80640	
		Structure's Vol. Demolished																0.33	3520	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard							74			lb/cf		3520	ton	24640	
		Subtotal																			105280	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	60	160	0.67								FT		238	CY	1578	
		Concrete's Vol. Demolished																1.3	309	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														309	5985	
		Transportation Cost																		309	0	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														309	2948	
		Subtotal																			10511	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			115791	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Bathhouse 02																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	40	120	12								FT		57600	CF	17280
		Structure's Vol. Demolished																0.33	704	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		704	CY	4928
		Subtotal																			22208
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	40	120	0.67								FT		119	CY	789
		Concrete's Vol. Demolished																1.3	155	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													155	CY	3002
		Transportation Cost																	155	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													155	CY	1479
		Subtotal																			5270
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			27478

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Administration Office 03																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	40	70	18								FT		50400	CF	15120	
		Structure's Vol. Demolished																0.33	616	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		616	ton	4312	
		Subtotal																			19432	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	40	70	0.5								FT		52	CY	345	
		Concrete's Vol. Demolished																1.3	68	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													68	CY	1317	
		Transportation Cost																				
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														68	CY	
		Subtotal																			2311	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			21743	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Powder Magazines 04																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	8	8	8								2	FT		1024	CF	307
		Structure's Vol. Demolished																	0.33	13	CY	
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				0
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf			13	ton	91
		Subtotal																				398
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	10	10	0.5								2	FT		4	CY	27
		Concrete's Vol. Demolished																	1.3	5	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														5	CY	97
		Transportation Cost																		5	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														5	CY	48
		Subtotal																				172
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				570

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Overhead Conveyor 05																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	550	7	6								FT		23100	CF	6930	
		Structure's Vol. Demolished																0.33	282	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		282	ton	1974	
		Subtotal																			8904	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			8904	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Conveyor Bents 06																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	50	15	1.5								4	FT		4500	CF	1350
		Structure's Vol. Demolished																	0.33	55	CY	
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY														55	CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				0
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf			55	ton	385
		Subtotal																				1735
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	4	20	1								4	FT		12	CY	80
		Concrete's Vol. Demolished																	1.3	16	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														16	CY	310
		Transportation Cost																		16	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														16	CY	153
		Subtotal																				543
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				2278

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Drive Unit 07																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	20	30	6								FT		3600	CF	1080	
		Structure's Vol. Demolished																	0.33	44	CY	
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																			44	CY
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				0
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf			44	ton	308
		Subtotal																				1388
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	20	30	1								FT			22	CY	146
		Concrete's Vol. Demolished																	1.3	29	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														29	CY	562
		Transportation Cost																		29	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														29	CY	277
		Subtotal																				985
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				2373

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Discharge Structure 08																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	230	7	6								FT		9660	CF	2898	
		Structure's Vol. Demolished																	0.33	118	CY	
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard															
		Subtotal													74		lb/cf			118	ton	826
																						3724
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				3724

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Bent Angle Bracing 09																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	70	20	2								FT		2800	CF	840	
		Structure's Vol. Demolished																0.33	34	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		34	ton	238	
		Subtotal																			1078	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	2	30	0.67								FT		1	CY	7	
		Concrete's Vol. Demolished																1.3	1	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													1	CY	19	
		Transportation Cost																	1	CY		
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													1	CY	10	
		Subtotal																			36	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			1114	

Ref.	Task	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 Conveyor Stringers 10																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	320	5	3								FT		4800	CF	1440
		Structure's Vol. Demolished																0.33	59	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		59	ton	413
		Subtotal																			1853
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	60	160	1								FT		356	CY	2360
		Concrete's Vol. Demolished																1.3	463	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													463	CY	8968
		Transportation Cost																	463	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													463	CY	4417
		Subtotal																			15745
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			17598

Ref.	Task	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 11																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	24	50	30								FT		36000	CF	10800
		Structure's Vol. Demolished																0.33	440	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		440	ton	3080
		Subtotal																			13880
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	24	50	0.67								FT		30	CY	199
		Concrete's Vol. Demolished																1.3	39	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													39	CY	755
		Transportation Cost																	39	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													39	CY	372
		Subtotal																			1326
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			15206

Ref.	Task	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 Headwall 12																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	20	15	15								FT		4500	CF	1350	
		Structure's Vol. Demolished																0.33	55	CY		
		Rubble's Weight (exclude steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																		55	CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		55	ton	385	
		Subtotal																			1735	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Floor																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	20	15	1								FT		11	CY	73	
		Concrete's Vol. Demolished																1.3	14	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													14	CY	271	
		Transportation Cost																	14	CY	0	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													14	CY	134	
		Subtotal																			478	
		Wall's Demo. Cost																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	15	15	1								2 FT		17	CY	113	
		Concrete's Vol. Demolished																1.3	22	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													22	CY	426	
		Transportation Cost																	22	CY	0	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													22	CY	210	
		Subtotal																			749	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			2962	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Loadout Conveyor 13																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	160	4	6								FT		3840	CF	1152	
		Structure's Vol. Demolished																0.33	47	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35x8'5 Truck)																		47	CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		47	ton	329	
		Subtotal																			1481	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			1481	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Loadout Conveyor Bent 14																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	20	8	1.5								FT		240	CF	72	
		Structure's Vol. Demolished																0.33	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 (35'x8'5' Truck)																		3	CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		3	ton	21	
		Subtotal																			93	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	4	12	1.5								FT		3	CY	20	
		Concrete's Vol. Demolished																1.3	4	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													4	CY	77	
		Transportation Cost																	4	CY		
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													4	CY	38	
		Subtotal																			135	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			228	

Ref.	Task	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 Fan 15																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	12	12	50								FT		7200	CF	2160
		Structure's Vol. Demolished																0.33	88	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)																			CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		88	ton	616
		Subtotal																			2776
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	Concrete demolition	2411617044	6.63	12	50	1								FT		22	CY	146
		Concrete's Vol. Demolished																1.3	29	CY	0
		Loading Cost	Front end loader 3 CY	Loading and Truckin	2411919308	19.37													29	CY	562
		Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip																29	CY	
		Disposal Costs	Disposal on site	Disposal on site	2411617420	9.54													29	CY	277
		Subtotal																			985
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			3761

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Ductwork Airlock 16																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.28	/CF	70	20	12								FT		16800	CF	4704
		Structure's Vol. Demolished																0.33	205	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY														205	CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard									74		lb/cf		205	ton	1435
		Subtotal																			6139
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	Concrete demolition	2411617044	6.63	70	20	1								FT		52	CY	345
		Concrete's Vol. Demolished																1.3	68	CY	
		Loading Cost	Front end loader 3 CY	Loading and Truckin	2411919308	19.37													68	CY	1317
		Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip																68	CY	0
		Disposal Costs	Disposal on site	Disposal on site	2411617420	9.54													68	CY	649
		Subtotal																			2311
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			8450

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Motor Room 17																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.28	/CF	16	16	10								FT		2560	CF	717
		Structure's Vol. Demolished																0.33	31	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY														31	CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		31		217
		Subtotal																			934
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	Concrete demolition	2411617044	6.63	16	16	1								FT		9	CY	60
		Concrete's Vol. Demolished																1.3	12	CY	
		Loading Cost	Front end loader 3 CY	Loading and Truckin	2411919308	19.37														12	CY
		Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip																	12	CY
		Disposal Costs	Disposal on site	Disposal on site	2411617420	9.54														12	CY
		Subtotal																			406
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			1340

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		MCC 18																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.28	/CF	12	20	9								FT		2160	CF	605
		Structure's Vol. Demolished																0.33	26	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY														26	CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74		lb/cf			26	ton	182
		Subtotal																			787
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	Concrete demolition	2411617044	6.63	12	20	1								FT		9	CY	60
		Concrete's Vol. Demolished																1.3	12	CY	
		Loading Cost	Front end loader 3 CY	Loading and Truckin	2411919308	19.37													12	CY	232
		Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip																12	CY	
		Disposal Costs	Disposal on site	Disposal on site	2411617420	9.54													12	CY	114
		Subtotal																			406
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			1193

Ref.	Task	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 19																				
		Structure's Demolition Cost	Seal Portals	UEI	4600	EA.											4	EA		4	EA	18400
		Structure's Vol. Demolished																				
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel																				
		Subtotal																				18400
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				18400

Ref.	Task	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 Tanks 20																				
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF			40	12							2	FT		9048	2714	
		Structure's Vol. Demolished																	0.33	111	CY	
		Rubble's Weight (exclude steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY														111	CY	
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard									74		lb/cf		111	ton	777	
		Subtotal																			3491	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	20	40	1								2	FT		59	CY	391
		Concrete's Vol. Demolished																	1.3	77	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														77	CY	1491
		Transportation Cost				/CY														77	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														77	CY	735
		Subtotal																			2617	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			6108	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Oil Grease Storage 21																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	10	30	10								FT		3000	CF	900
		Structure's Vol. Demolished																0.33	37	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY															CY
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck	Transportation to Nielsons Dump																		
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons Constructio	Nielsons	7.00	/ton														0
		Subtotal																			259
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	10	30	0.5								FT		6	CY	40
		Concrete's Vol. Demolished																1.3	8	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													8	CY	155
		Transportation Cost				/CY													8	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													8	CY	76
		Subtotal																			271
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			850.5

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Dumpster Bay 22																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	30	40	6								FT		7200	CF	2160
		Structure's Vol. Demolished																0.33	88	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY													88	CY	
		Truck's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		88	ton	616
		Subtotal																			2776
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	30	40	0.67								FT		30	CY	199
		Concrete's Vol. Demolished																1.3	39	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													39	CY	755
		Transportation Cost				/CY													39	CY	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													39	CY	372
		Subtotal																			1326
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			4102

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Monitoring Well 23																				
		Structure's Demolition Cost	Plug Well	AML3	5000	EA.											1	EA		1	EA	5000
		Structure's Vol. Demolished																				
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (35'x8'5' Truck)																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel																				
		Subtotal																				5000
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				5000

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Hilfiker Wall 24																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	150	30	12								FT		54000	CF	16200
		Structure's Vol. Demolished																0.33	660	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)				/CY													660	CY	
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard									74		lb/cf		660	ton	4620
		Subtotal																			20820
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			20820

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Guard Rail 25																			
		Structure's Demolition Cost																			
		Structure's Vol. Demolished																			
		Rubble's Weight (exclde steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (35'x8'5' Truck)																			
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																		0	0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel												480			lb/cf			0	0
		Subtotal																			
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	3400	3	0.67								FT				
		Concrete's Vol. Demolished																	1.3	253	CY
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														329	CY
		Transportation Cost																		329	CY
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														329	CY
		Subtotal																			11189
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			11189





Ref.	Task	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 28																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.28	/CF				30	12						3	FT		10179	2850	
		Structure's Vol. Demolished																0.33	124	CY		
		Rubble's Weight (exclde steel)																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Non Steel Truck																				
		Transportation Cost Non Steel Drive																				
		Disposal Cost Non Steel (Truck 35'x8'x5')																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																			0	
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		124	ton	868	
		Subtotal																			3718	
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	16	40	1								2	FT		47	CY	312
		Concrete's Vol. Demolished																1.3	61	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													61	CY	1182	
		Transportation Cost																	61	CY	0	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													61	CY	582	
		Subtotal																			2076	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			5794	

Ref.	Task	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 Vaults 29																					
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	15	20	13								3	FT		11700	CF	3510	
		Structure's Vol. Demolished																	0.33	143	CY		
		Rubble's Weight (exclude steel)																					
		Truck's Capacity																					
		Haulage																					
		Transportation Cost Non Steel Truck																					
		Transportation Cost Non Steel Drive																					
		Disposal Cost Non Steel (Truck 35'x8'x5')																			143	CY	0
		Steel's Weight																					
		Truck's Capacity																					
		Haulage																					
		Transportation Cost Steel Truck																					
		Transportation Cost Steel Truck Drive																					
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard									74		lb/cf			143	ton	1001	
		Subtotal																				4511	
		Equipment 's Disposal Cost																					
		Dismantling Cost																					
		Equipment 's Vol. Demolished																					
		Loading Costs																					
		Transport Costs																					
		Disposal Costs																					
		Subtotal																					
		Concrete Demolition																					
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	15	30	1.5								3	FT		75	CY	497	
		Concrete's Vol. Demolished																	1.3	98	CY		
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY														98	CY	1898	
		Transportation Cost																		98	CY	0	
		Disposal Costs	Disposal on site	024116174200	9.54	/CF														98	CY	935	
		Subtotal																				3330	
		Concrete Demolition																					
		Demolition Cost																					
		Concrete's Vol. Demolished																					
		Loading Cost																					
		Transportation Cost																					
		Disposal Costs																					
		Subtotal																					
		Concrete Demolition																					
		Demolition Cost																					
		Concrete's Vol. Demolished																					
		Loading Cost																					
		Transportation Cost																					
		Disposal Costs																					
		Subtotal																					
		Total																				7841	

Ref.	Task	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 Semisphere 30																			
		Structure's Demolition Cost																			
		Structure's Vol. Demolished																			
		Rubble's Weight (exclde steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')																			
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel																			
		Subtotal																			
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	210	0.5		13							FT		79	CY	524
		Concrete's Vol. Demolished																1.3	103	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													103	CY	1995
		Transportation Cost																	103	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													103	CY	983
		Subtotal																			3502
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	210	12	0.67								FT		63	CY	418
		Concrete's Vol. Demolished																1.3	82	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													82	CY	1588
		Transportation Cost																	82	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													82	CY	782
		Subtotal																			2788
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			6290

Ref.	Task	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 Vent 31																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF			250	3.5							FT		2405	CF	722
		Structure's Vol. Demolished																0.33	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 (Truck 35'x8'x5')		Scamp		4	/CY												29	CY	116
		Truck's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		/ton or yard								74		lb/cf		29	ton	203
		Subtotal																			1041
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			1041

Ref.	Task	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 32																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	20	20	30								FT		12000	CF	3600
		Structure's Vol. Demolished																0.33	147	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp	4	/CY													147	CY	588
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		147	ton	1029
		Subtotal																			5217
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	20	20	1								FT		15	CY	99
		Concrete's Vol. Demolished																1.3	20	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													20	CY	387
		Transportation Cost																	20	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													20	CY	191
		Subtotal																			677
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			5894

Ref.	Task	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 Electrical 33																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	50	100	20								FT		100000	CF	30000
		Structure's Vol. Demolished																0.33	1222	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp		4													1222	CY	4888
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		1222	ton	8554
		Subtotal																			43442
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	40	80	1								FT		119	CY	789
		Concrete's Vol. Demolished																1.3	155	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													155	CY	3002
		Transportation Cost																	155	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													155	CY	1479
		Subtotal																			5270
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			48712

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Powerline 69KV 34																			
		Structure's Demolition Cost	Wire Removal	26 05 10 1900	18.52	CLF	1200										LF		12	CLF	222
		Structure's Vol. Demolished																			
		Rubble's Weight (exclde steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp																	
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		0	ton	0
		Subtotal																			222
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			222

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Powerline Yard Distribution 35																				
		Structure's Demolition Cost	Wire Removal	26 05 05 10 1900	18.52	CLF	1400										LF		14	CLF	259	
		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 (Truck 35'x8'x5')		Scamp																		
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				0
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00		ton or yard								74		lb/cf		0	ton		0
		Subtotal																				259
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				259

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Pavement Rail Loadout 36																			
		Structure's Demolition Cost																			
		Structure's Vol. Demolished																			
		Rubble's Weight (exclde steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp																	
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel																			0
		Subtotal																			0
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	100	120	0.33								FT		147	CY	975
		Concrete's Vol. Demolished																1.3	191	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													191	CY	3700
		Transportation Cost				/CY													191	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													191	CY	1822
		Subtotal																			6497
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			6497

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Pumphouse 37																			
		Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.30	/CF	20	20	8								FT		3200	CF	960
		Structure's Vol. Demolished																0.33	39	CY	
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp	4	/CY													39	CY	156
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard									74		lb/cf		39	ton	273
		Subtotal																			1389
		Equipment 's Disposal Cost	Chain link remove 8'-10'	02 41 13 60 1700	3.41	/LF	250										FT		250	FT	853
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Asphalt																			
		Asphalt Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY						31.48					CY		31	CY	206
		Concrete's Vol. Demolished																1.3	40	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													40	CY	775
		Transportation Cost																	40	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													40	CY	382
		Subtotal																			1363
		Concrete Demolition																			
		Demolition Cost	Concrete demolition	024116170440	6.63	/CY	20	20	0.5								FT		7	CY	46
		Concrete's Vol. Demolished																1.3	9	CY	
		Loading Cost	Loading and Trucking	024119193080	19.37	/CY													9	CY	174
		Transportation Cost																	9	CY	0
		Disposal Costs	Disposal on site	024116174200	9.54	/CF													9	CY	86
		Subtotal																			306
		Total																			3485

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	2233	Riprap 38																			
		Structure's Demolition Cost																			
		Structure's Vol. Demolished																			
		Rubble's Weight (exclde steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp																	
		Steel's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel																			
		Subtotal																			
		Riprap									10						sq ft				
		Place Riprap	Machine placed rip-rap slope protection	31 37 13.10 0100	56.69	CY	500										ft		185	CY	10488
		Subtotal																			10488
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			10488

Task ID	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
		Job Gas Vent Hole																			
		Structure's Demolition Cost	Mechanical equipment heavy	230505103600	641.65	/ton							4				8 tons		32 tons		20533
		Structure's Vol. Demolished	Plug Well	AML3	5000	EA.											3 EA		3 EA		15000
		Rubble's Weight (exclude steel)																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Non Steel Truck																			
		Transportation Cost Non Steel Drive																			
		Disposal Cost Non Steel (Truck 35'x8'x5')		Scamp																	
		Truck's Weight																			
		Truck's Capacity																			
		Haulage																			
		Transportation Cost Steel Truck																			0
		Transportation Cost Steel Truck Drive																			
		Disposal Cost Steel	Nielsons Construction	Nielsons	7.00	/ton or yard								74			lb/cf		32		224
		Subtotal																			35757
		Equipment 's Disposal Cost																			
		Dismantling Cost																			
		Equipment 's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			35757

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		B Canyon Portal Reclamation		DOGM TI 4010	4604															1	Each	\$4,604
		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 (Truck 35'x8'x5')																				
		Steel's Weight																				
		Truck's Capacity																				
		Haulage																				
		Transportation Cost Steel Truck																				
		Transportation Cost Steel Truck Drive																				
		Disposal Cost Steel																				
		<b>Subtotal</b>																				\$4,604
		Equipment 's Disposal Cost																				
		Dismantling Cost																				
		Equipment 's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		<b>Subtotal</b>																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		<b>Subtotal</b>																				
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		<b>Subtotal</b>																				
		<b>Total</b>																				\$4,604





	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Remove Excess Pad Fill															
Left Fork															
Off Highway Rear Dump 65 ton	01 54 33.20 5610	99.4	1569.75	52.10	249.61	6	1497.66 \$/HR		13614	CY	380	CY/HR	35.8	HR	53616
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7 \$/HR						35.8	HR	10407
Right Fork															
Off Highway Rear Dump 65 ton	01 54 33.20 5610	99.4	1569.75	52.10	249.61	6	1497.66 \$/HR		3916	CY	380	CY/HR	10.3	HR	15426
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7 \$/HR						10.3	HR	2994
Main Canyon															
Off Highway Rear Dump 65 ton	01 54 33.20 5610	99.4	1569.75	52.10	249.61	6	1497.66 \$/HR		88829	CY	380	CY/HR	233.8	HR	350152
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7 \$/HR						233.8	HR	67966
Subtotal															500561.094

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Remove Remaining Backfill															
Left Fork 21+50 to 23+00															
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7	\$/HR	2857	CY	440	CY/HR	6.5	HR	1890
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7	\$/HR	16604	CY	391.5	CY/HR	42.4	HR	12326
Off Highway Rear Dump 65 ton	01 54 33.20 5610	99.4	1569.75	52.10	249.61	6	1497.66	\$/HR	2857	CY			42.4	HR	63501
Right Fork Upper Canyon @35+00															
D9R 400HP	01 54 33.20 4360	130.86	2173.5	70.25	336.95	1	336.95	\$/HR	16604	CY	663	CY/HR	25	HR	8424
Assume material will be sent to backfill highwall and that the cost to ship off site is more than the cost to backfill highwall.															
Subtotal															86141

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
				Hr Cost Inc. O&P											
Backfill Highwall															
CAT 324E 2CY bucket 30sec cycle	01 54 33.20 0300	78.29	1159.2	70.25	220.99	1	220.99	\$/HR	1481	CY	240	CY/HR	6.2	HR	1370
Subtotal															1370

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Topsoil															
988G	01 54 33.20 4810	111.77	1738.8	70.25	290.70	1	290.7	\$/HR	6506	CY	220	CY/HR	29.6	HR	8605
Off Highway Rear Dump 65 ton	01 54 33.20 5610	99.4	1569.75	52.10	249.61	1	249.61	\$/HR					29.6	HR	7388
CAT 324E 2CY bucket 30sec cycle	01 54 33.20 0300	78.29	1159.2	70.25	220.99	1	220.99	\$/HR					29.6	HR	6541
Subtotal															22534



	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Establish Rubbleland Surface															
CAT 324E 2CY bucket 30sec cycle	01 54 33.20	68.70	1175	70.25	212.39	1	212.39	\$/HR					111	HR	23575
Subtotal															23575

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost	
Pump House																
D9R 400HP	01 54 33.20	130.86	2173.5	70.25	336.95	1	336.95	\$/HR					2 HR		674	
Subtotal																674

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's Hr Cost Inc. O&P	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Gob Hole															
Grading															
Backfill and rough grade															
D9R 400HP	01 54 33.20	130.86	2173.5	70.25	336.95	1	336.95	\$/HR	842	CY	250	CY/HR	3.4	HR	1146
Topsoil															
988G	01 54 33.20	111.77	1738.8	70.25	290.70	1	290.7	\$/HR	515	CY	220	CY/HR	2.3	HR	669
Off Highway Rear Dump 65 ton	01 54 33.20	99.4	1569.75	52.10	249.61	1	249.61	\$/HR					2.3	HR	574
D9R 400HP	01 54 33.20	130.86	2173.5	70.25	336.95	1	336.95	\$/HR	515	CY	250	CY/HR	2.1	HR	708
Subtotal															3097

	Means Reference Number	Hourly Operating Costs	Rent Per Day	Operator's	Total Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor	Units	Cost
				Hr Cost Inc. O&P									Time/Dis.		
Support Personnel and Equipment															
Pickup truck 4x4, 3/4 ton crew A-3A	015433407200	14.68	71	63.15	82.27	1	82.27	\$/HR					605.5	HR	49814
5,000 gallon water truck 015433406900	015433406950	86.12	763.14	47.05	180.87	1	180.87	\$/HR					605.5	HR	109517
Subtotal															159331



Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Site																			
	Pinyon Juniper Community																			
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	/MSF					13						AC		566	MSF	21219
	Seeding Material	West Ridge Pinyon/Juniper		550.36	/AC					13						AC		13	AC	7155
	Seeding Equipment and Labor	Hydro Spreader (Labor and Equipment)	32 92 19.14 0200	35.35	/MSF					13						AC		566	MSF	20008
	Pocking	Excavation Bulk Bank 2C.Y. (B12C Crew)	31 23 16.42 0260	1.80	/CY						340					CY		340	CY	612
	Douglas Fir Maple Community																			
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	/MSF					10						AC		436	MSF	16346
	Seeding Material	West Ridge Douglas Fir Maple		777.35	/AC					10						AC		10	AC	7774
	Seeding Equipment and Labor	Hydro Spreader (Labor and Equipment)	32 92 19.14 0200	35.35	/MSF					10						AC		436	MSF	15413
	Transplants														300	/AC				
		Serviceberry		4.15	/EA					10						AC		3000	EA	12450
		Mountain Mahogany		4.15	/EA					10						AC		3000	EA	12450
	Douglas Fir Rocky Mountain Juniper																			
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	/MSF					5						AC		218	MSF	8173
	Seeding Material	West Ridge Douglas Fir Mt Juniper		550.36	/AC					5						AC		5	AC	2752
	Seeding Equipment and Labor	Hydro Spreader (Labor and Equipment)	32 92 19.14 0200	35.35	/MSF					5						AC		218	MSF	7706
	Sagebrush Grass Community																			
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	/MSF					1						AC		44	MSF	1650
	Seeding Material	West Ridge Douglas Fir Mt Juniper		631.05	/AC					1						AC		1	AC	631
	Seeding Equipment and Labor	Hydro Spreader (Labor and Equipment)	32 92 19.14 0200	35.35	/MSF					1						AC		44	MSF	1555
	Subtotal																			135894
	Mine Site																			
	Reseeding 25%																			33974
	Subtotal																			33974
	Total																			169868

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	
	Pumphouse																				
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	MSF					0.9						AC		39	MSF	1462	
	Seeding Material	West Ridge Pinyon/Juniper		550.36	AC					0.9						AC		0.9	AC	495	
	Seeding Equipment and Labor	Hydro Spreader (Labor and Equipment)	32 92 19.14 0200	35.35	MSF					0.9						AC		39	MSF	1379	
	Place Silt Fence	Silt fence	31 25 14.16 1100	0.97	LF	150										FT		150	FT	146	
	Pocking	Excavation Bulk Bank 2C.Y. (B12C Crew)	31 23 16.42 0260	1.71	CY						340					CY		340	CY	581	
	Subtotal																			4063	
	Mine Site																				
	Reseeding 25%																				1016
	Subtotal																				1016
	Total																				5079

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
	Gob Hole Vent																			
	Mulch Material Labor and Equipment	Hay 1" Large Power Mulcher (B65 Crew)	32 91 13.16 0350	37.49	MSF					0.34						AC		15	MSF	562
	Seeding Material	West Ridge Pinyon/Juniper		550.36	AC					0.34						AC		0.3	AC	165
	Seeding Equipment and Labor	Hydro Spreader (Labor Material and Equipment)	32 92 19.14 0200	35.35	MSF					0.34						AC		15	MSF	530
	Pocking	Excavation Bulk Bank 2C.Y. (B12C Crew)	31 23 16 42 0260	1.71	CY						340					CY		340	CY	581
	Subtotal																			1838
	Mine Site																			
	Reseeding 25%																			460
	Subtotal																			460
	Total																			2298