C/007/013 Incoming ✓
5123

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 910
East Carbon, Utah 84520
Phone: (435) 888-4000
(435) 650-3157
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

August 14, 2018

Attn: Daron Haddock
Permit Supervisor

Re: Lila Canyon Mine C/007/013 Road Paving Bonding

Dear Mr. Haddock,

Attached you will find 2 clean copies of the road paving bonding to be stamped and incorporated into the MRP.

If you have any questions, or need any additional information regarding this submittal, please contact me directly at 435-888-4000.

Sincerely,

Karin Madsen
Engineering Tech
UtahAmerican Energy, Inc.

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Application for Permit Processing
Detailed Schedule of Changes to the MRP

L18-005 Road Paving Bonding	Permit Number: ACT/007/013
	Mine: Lila Canyon
	Permittee: UtahAmerican Energy, Inc.

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☐ REPLACE	☐ REMOVE	Bonding Calculations and Total Sheet
☐ ADD	☐ REPLACE	☐ REMOVE	
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Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

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Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	$708,213.00	
Subtotal Backfilling and Grading	$452,273.00	
Subtotal Revegetation	$151,618.00	
Direct Costs in 2017 Dollars	**$1,312,104.00**	

Indirect Costs

Mob/Demob	$131,210.00	10.0%
Contingency	$65,605.00	5.0%
Engineering Redesign	$32,803.00	2.5%
Main Office Expense	$89,223.00	6.8%
Project Management Fee	$32,803.00	2.5%
Subtotal Indirect Costs 2017 Dollars	**$351,644.00**	**26.8%**
Total Cost	**$1,663,748.00**	
Escalation factor		0.000
Number of years		5
Escalation	$0.00	
Total Reclamation Cost 2021 Dollars	**$1,663,748.00**	
Bond Amount (rounded to nearest $1,000) 2021 dollars	**$1,664,000.00**	
Bond Posted	$1,799,000.00	
Difference Between Posted Bond and Cost Estimate	**$135,000.00**	

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Lila Canyon Mine Reclamation Bond Estimate
Unit Costs

All unit costs were obtained from RS Means 2017 Site Work and Landscape Costs or
RS Means 2017 Heavy Construction Costs, except as noted.
All costs include overhead and profit.

Means Number	Item	Unit Cost	Units	
32 91 13.23 3100	75 HP Dozer with scarifier	5.85	MSF	
32 91 13.16 0390	Power mulcher, large, hay 1" deep	30.50	MSF	
32 01 90.13 0180	Fertilizer, hydro spread, 1.5 lb/MSF	5.00	MSF	
32 92 19.14 4600	Hydroseeder (equipment and labor only)	22.00	MSF	
05 05 05.10 0380	Fabricated steel demo, 121-500 lb	68.00	EA.	
05 05 05.10 0390	Fabricated steel demo, 501-1000 lb	91.00	EA.	
02 41 19.27 0020	Torch cutting, steel, 1" thick plate	3.21	LF	Unit cost reduced 30% for no interior walls
02 41 16.13 0020	Building Demolition - Steel	0.27	CF	(see 02 41 16.13 5000)
02 41 16.13 0100	Building Demolition - Mixture of Types	0.40	CF	
13 05 05.50 0650	Pre-engineered steel bldg demo,>12,500 SF	1.68	SF Flr	
02 41 16.17 0280	Concrete Floor Demolition, 4" thick, reinforced	0.89	SF	
02 41 16.17 0420	Concrete Floor Demolition, 6" thick, reinforced	1.11	SF	Unit cost increased 10% for reinforcing
02 41 16.17 2500	Concrete Wall/Floor Demo, 12" thick, reinforced	1.57	SF	(see 02 41 16.17 2600)
03 05 05.10 0060	Concrete, Selective Demo, Reinf 1-2% of X Sec	167.00	CY	
31 23 16.42 1300	Front End Loader 3CY	2.21	CY	
31 23 23.20 1014	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	3.74	CY	
02 41 16.17 4200	On Site Disposal	11.40	CY	
Crew B-1	Portal seal, site preparation crew	1464.40	Day	See JennChem bid
04 22 10.34 1500	Block wall, reinforced, 4" thick (2 each seal)	8.50	SF	
JennChem	Seal portals, materials	4320.00	EA.	
JennChem	Seal portals, labor	265.00	HR	
Classic Helicopters	Portal seal support, material haulage	11965.00	Job	
23 05 05.10 3600	Mechanical Equipment Demolition, Heavy	1225.00	Ton	
26 05 05.10 1570	Demo of elec transformer, 3 ph, 750kVA	1700.00	EA.	
Crew A-3H	Hydraulic crane, 12 ton, with operator	1518.58	Day	
G1030 1100	Cut and fill common earth, 8" lift, 2 passes	7.00	CY	
31 23 16.42 0260	Excavation Bulk Bank 2 CY (322BL)	1.81	CY	
31 23 16.13 3080	Backfill Trench, min haul, FE loader 2 1/4 CY	2.50	CY	
Crew B-10M	Dozer, 300 HP, 50' haul, sandy clay and loam	2978.00	Day	
Crew B-14A	Loader, 500 HP, wheel mounted, 5 CY cap	4306.40	Day	
Crew B-10G	Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	2313.60	Day	
Crew B-33K	Self-propelled scraper, 34 CY, 500 HP	418.20	HR	
Crew B-34F	Off-highway rear dump truck, 40 ton, 10 MPH	2234.80	Day	
Crew B-9A	5000 gallon water truck	2041.01	Day	
02 41 13.60 1700	Chain link removal, 8'-10' high	4.44	LF	
02 41 13.17 5050	Pavement Removal, bituminous, 4" to 6" thick	9.80	SY	See Scamp bid
02 41 13.30 1600	Median barrier, precast conc, remove and store	14.00	LF	
Scamp	Demolition debris, off-site haul and disposal	6.00	Ton	
02 41 13.80 0200	Wood utility poles, 35'-45' high	370.00	EA.	
02 41 13.80 0300	Wood cross arms, 4'-6' long	136.00	EA.	
Crew B-6	Backhoe loader, 2 laborers, equip operator	1980.00	Day	
Crew B-7	Log chipper, crew, and assoc equipment	5025.34	Day	
26 05 05.10 1900	Electrical demolition, #2 wire, from conduit	30.50	CLF	
02 65 10.30 0110	3000 to 5000 gal. undrgrnd steel tank removal	860.00	EA.	
02 65 10.30 1023	3000 to 5000 gal. tank, disposal, 100 mi RT	830.00	EA.	
02 65 10.30 0300	3000 to 5000 gal. tank, sludge removal	285.00	EA.	
02 65 10.30 0390	Dispose of sludge off site	6.80	Gal	
1305 05.75 0530	5000 to 12000 gal. abovegrnd steel tank removal	1625.00	EA.	
02 41 13.40 0110	Demolition, CMP pipe, steel, 12"	2.60	LF	
02 41 13.40 0160	Demolition, CMP pipe, steel, 18"	3.90	LF	
02 41 13.40 0170	Demolition, CMP pipe, steel, 24"	14.70	LF	
02 41 13.40 0180	Demolition, CMP pipe, steel, 30"-36"	17.65	LF	
24 41 13.40 0190	Demolition, CMP pipe, steel, 48-60"	22.00	LF	
13 05 05.60 0050	Silos, Selective Demolition, steel	2900.00	EA.	
01 52 13.20 0800	Haul Connex units offsite	12.10	Mile	

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Lila Canyon Mine Reclamation Bond Estimate

Demolition and Removal Cost Summary

Structure/Item	Cost ($)
01 Office/Bathhouse	73,121
02 ROM Coal Stockpile	0
03 Shop/Warehouse	66,094
04 Storage Shed	348
05 Employee Parking	96,771
06 Truck Loading/Unloading Area	0
07 Equipment/Materials Storage Area	0
08 Potable Water Tank	3,741
09 Sewer Treatment Plant	887
10 Power Poles	11,603
11 Electrical Transformers	4,961
12 Overhead Power Lines	2,952
13 Buried Power Lines	816
14 Rock Dust Silo	3,147
15 Fuel Tanks	6,265
16 Reclaim Tunnel	23,160
17 Reclaim Conveyor	3,709
18 Crusher Conveyor to Loadout Bin	2,739
19 Crusher MCC Building	364
20 Truck Loadout	512
21 Refuse Conveyor	826
22 Crusher/Screen Plant	3,913
23 Reclaim Escape Tunnel	12,851
24 Reclaim Feeder Gate	137
26 Extended ROM Conveyor	3,258
27 Refuse/Non-Coal Waste Pile	0
28 Electrical Grounding Field	1,986
29 Sedimentation Pond Spillways	1,430
30 Existing ROM Conveyor	6,432
31 Portal Closure	63,312
32 Concrete Conveyor Bay	371
33 ROM Coal Staking Tube	8,858
34 Mine MCC Building and Electrical Tower	1,595
35 Backup Ventilation Fans	37,668
36 Main Ventilation Fan	37,599
37 Non-Potable Water Tanks	7,670
38 Powder and Cap Magazines	4,924
39 Chain Link Fence	6,676
40 Concrete Electrical Junction Box	73
41 Loadout MCC Building	289
42 Mine Parking	35,311
43 Abandoned Concrete Reclaim Room	5,364
44 Jersey Barrier	10,640
45 Concrete Trash Chute	1,280
46 Emergency Reclaim Feeder Gate	69
47 Gantry Lift Assembly	5,727
Mine Substation	8,476
Paved Mine Roads	63,224
Culvert Demolition	46,055
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
TOTAL	708,213

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	01 Office/Bathhouse																			
	Structure's Demolition Cost	Pre-engineered steel bldg demo, >12,500 SF	13 05 05 50 0650	1.68	SF Flr	150	100	15		15000								15000	SF Flr	25200
	Structure's Vol. Demolition										225000						0.3	2500	CY	
	Bathhouse New Addition Demo	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40	CF			10		432	4320						0.3	1200	CF	518
	Truck's Capacity																			
	Haulage																			
	Loading Cost Bathhouse New	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													48		100
	Transportation Cost Bathhouse New	12 CY (16 Ton) Dump Truck 1/2 rod, Trip	31 23 23.20 1014	3.74	CY													48		180
	Disposal Cost Bathhouse New	On Site Disposal	02 41 16.17 4200	11.40	CY													48	CY	547
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/cy		600	Tons	3600
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			30151
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Load Conex Units	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.58	Day									1		Day				1510
	Haul Conex Units to SLC, UT	Haul Conex units offsite	01 52 13.20 0800	12.10	Mile										140	Miles		3	EA	5082
	Disposal Costs																			
	Subtotal																			6601
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	150	100	1							15000	SF		555.6	CY	23550
	Concrete Footings - Conex Units	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	60	2	1							120	SF	1.3	4.4		188
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													728	CY	1600
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod, Trip	31 23 23.20 1014	3.74	CY													728	CY	2723
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													728	CY	8290
	Subtotal																			36300
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			73121

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	02 ROM Coal Stockpile																			
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																		
	Structure's Vol. Demolition																			
	Hubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	03 Shop/Warehouse																			
	Structure's Demolition Cost	Pre-engineered steel bldg demo.>12,500 SF	13 05 05.50 0550	1.68	SF Flr	150	100	20		15000								15000	SF Flr	25200
	Structure's Vol. Demolition										300000						0.3	3333	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			B/cy		800	Ton	4800
	Transportation Cost Steel Drive																			
																				0
	Subtotal																			30000
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Slab																			
	Concrete Demolition					150	100	1			555				15000	SF				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF													15000	SF	23550
	Concrete Vol. Demolished																1.3	723	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													723	CY	1598
	Transportation Costs	12 CY (10 Ton) Dump Truck 1/2 mi. Trip	31 23 23.20 1014	3.74	CY													723	CY	2704
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													723	CY	8242
	Subtotal																			36094
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			66094

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	04 Storage Shed																			
	Structure's Demolition Cost	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40	CF	8	8	8										512	CF	204.8
	Structure's Vol. Demolition																0.3	6	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	On Site Disposal	02 41 16.17 4200	11.40	CY													6	CY	68
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			273
	Concrete Demolition	Concrete Floor Demolition, 4" thick, reinforced	02 41 16.17 0280	0.89	SF	8	8	0.33										64	SF	57
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY										0.8	CY	1.3	1	CY	2
	Transportation Costs	12 CY (10 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													1	CY	4
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													1	CY	12
	Subtotal																			75
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			348

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	05 Employee Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick	02 41 13.17 5010	9.80	SY			0.33		75200						SF		8407	SY	82977
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						931					CY	1.3	1210	CY	13794
	Subtotal																			96771
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			96771

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	08 Truck Loading/Unloading Area																			
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																		
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	07 Equipment/Materials Storage Area																			
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP																		
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	08 Potable Water Tank																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16 13 0020	0.27	CF			20	15											
	Structure's Vol. Demolition																	3534	CF	954
	Rubble's Weight (exclude steel)																	1295	SF	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scama	6.00	Ton								1.00			LB-SF		0.63	Ton	4
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			958
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16 17 0420	1.11	SF	15	15	0.5										225	SF	250
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16 42 1300	2.21	CY													146		322
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rpd. Trip	31 23 23 20 1014	3.74	CY													146		545
	Disposal Costs	On Site Disposal	02 41 16 17 4200	11.40	CY													146		1664
	Subtotal																			2781
	Total																			3741

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	09 Sewer Treatment Plant																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						1600				CF			1600	CF	486
	Structure's Vol. Demolition																0.3	20	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/cy		5	Ton	30
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			516
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	15	15	0.5							225	SF		225	SF	250
	Concrete Vol. Demolished																1.3	5.4	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													7		15
	Transportation Costs	12 CY (10 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													7		26
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													7		80
	Subtotal																			371
	Total																			887

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	10 Power Poles																			
	Structure's Demolition Cost	Wood utility poles, 35'-45' high	02 41 13.80 0200	370.00	EA										13	EA		13	EA	4810
	Structure's Demolition Cost	Wood cross arms, 4'-8' long	02 41 13.80 0300	136.00	EA										13	EA		13	EA	1768
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Log chipper, crew, and assoc equipment	Crew B-7	5025.34	Day													1.00	Day	5025
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			11603
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			11603

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	11 Electrical Transformers																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA	26 05 05.10 1570	1700.00	EA.										2			2	EA.	3400
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.58	Day													1	Day	1518
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton													7	Ton	42
	Disposal Costs																			
	Subtotal																			4961
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			4961

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	12 Overhead Power Lines																			
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit	26 05 05.10 1000	30.50	CLF	3220									3			9660	FT	2945
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								201			BuMF		0.97	Ton	6
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			2952
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			2952

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	13 Buried Power Lines																			
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit	26 05 05.10 1800	30.50	CLF	800									3			2670	FT	814
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	0.00	Ton								201			Solid		0.27	Ton	2
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			
																				816
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			819

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	14 Rock Dust Silo																			
	Structure's Demolition Cost	Silos, Selective Demolition, steel	13 05 05 00 0050	2900.00	EA										1	EA		1	Ea	2900
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							4				Ton		4	Ton	24
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			2924
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubMtal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubMtal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	16	16	1			256					CF		9	CY	14
	Concrete Vol. Demolished																1.3	12	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													12	CY	27
	Transportation Costs	12 CY (15 Ton) Dump Truck 1/2 mil. Trip	31 23 23 20 1014	3.74	CY													12	CY	45
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													12	CY	137
	SubMtal																			223
	Total																			3147

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	15 Fuel Tanks																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment Disposal Cost																			
	Tank Removal	3000 to 5000 gal. undrgrnd steel tank remov	02 65 10.30 0110	800.00	EA										3	EA		3	EA	2580
	Remove Sludge	3000 to 5000 gal. tank, sludge removal	02 65 10.30 0300	285.00	EA										3	EA		3	EA	855
	Tank Disposal	3000 to 5000 gal. tank, disposal, 100 mi RT	02 65 10.30 1023	830.00	EA										3	EA		3	EA	2490
	Sludge Disposal	Dispose of sludge off site	02 65 10.30 0300	6.80	Gal										50	Gal		50	Gal	340
	Subtotal																			6265
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			6265

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
M Reclaim Tunnel																			
Conveyor Demolition Cost																			
Structure's Vol. Demolition																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Drive																			
Disposal Cost Steel																			
Subtotal																			0
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol. Demolished																			
Loading Costs																			
Transportation Costs																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	810	8	8			900							900	CY	1507
Concrete Vol. Demolished																1.3			
Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													1248	CY	2758
Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													1248	CY	4668
Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													1248	CY	14227
Subtotal																			23160
Concrete Demolition																			
Concrete Cost																			
Concrete Vol. Demolished																			
Loading Costs																			
Transportation Costs																			
Disposal Costs																			
Subtotal																			
Total																			23160

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	17 Reclaim Conveyor																			
	Conveyor Demolition Cost	Building Demolition - Steel	02 41 10 13 0020	0.27	CF	810	4	4								FT		12960	CF	3499
	Structure's Vol. Demolition																0.3	144	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								460			BCY		35	Ton	210
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			3709
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			3709

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	18 Crusher Conveyor to Loadout Bin																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	230	6	6								FT		8280	CF	2236
	Structure's Vol. Demolition																0.3	92	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								460			lb/CY		22	Ton	132
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			2368
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						15							15	CY	24
	Concrete Vol. Demolished																1.3	20	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													20	CY	44
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 mil. Trip	31 23 23.20 1014	3.74	CY													20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													20	CY	228
	Subtotal																			371
	Total																			2739

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	19 Crusher MCC Building																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	8	8								FT		1280	CF	346
	Structure's Vol. Demolition																0.3	14	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								400			lb/CY		3	Ton	18
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			364
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			364

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	20 Track Loadout																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	5	5	20							500	CF		500	CF	135
	Structure's Vol. Demolition																0.3	6	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			B/CY		1	Ton	6
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			141
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						15							15	CY	24
	Concrete Vol. Demolished																1.3	20	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													20	CY	44
	Transportation Costs	12 CY (10 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													20	CY	228
	Subtotal																			371
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			512

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	21 Refuse Conveyor																			
	Conveyor Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	160	4	4								FT		2560	CF	778
	Structure's Vol. Demolition																0.3	32	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	0.00	Ton								400			B/CY		8	Ton	48
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			826
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			826

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	22 Crusher/Screen Plant																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						12000					CF		12000	CF	3240
	Structure's Vol. Demolition																0.3	133	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		32	Ton	192
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			3432
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						20							20	CY	31
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													26	CY	57
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													26	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													26	CY	296
	Subtotal																			481
	Total																			3913

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	23 Reclaim Escape Tunnel																			
	Corrugated Steel	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						26880					CF		26880	CF	7258
	Escape Tunnel	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						1257							1257	CF	339
	Fan	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						64							64	CF	17
	Fan House	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						512							512	CF	138
	Structure's Vol. Demolition																0.3	319	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								460			B/CY		77	Ton	462
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			8214
	Excavation and Backfill																			
	Reclaim Tunnel	Excavation Bulk Bank 2 CY (3220L)	31 23 16.42 0260	1.81	CY	350	14	10								FT		1815	CY	3285
																				0
	Escape Tunnel	Excavation Bulk Bank 2 CY (3220L)	31 23 16.42 0260	1.81	CY	325	4	10										481	CY	871
																				0
	Subtotal																			4156
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						20							20	CY	31
	Concrete Vol. Demolished																1.3	26	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1000	2.21	CY													26	CY	57
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													26	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													26	CY	296
	Subtotal																			481
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			12851

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	24 Reclaim Feeder Gate																			
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb	05 05 05.10 0380	68.00	EA													2	EA	136
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scramp	6.00	Ton	3	3						20.4			lb/SF		0.18	Ton	1
	Transportation Cost Steel Drive																			
	Subtotal																			137
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Foundation																			
	Tube																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			137

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	28 Extended ROM Conveyor																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	300	6	6								FT		10800	CF	2916
	Structure's Vol. Demolition																0.3	120	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		29	Ton	174
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			3090
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	10	10	1							2			7	CY	11
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														9	CY	20
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1016	3.74	CY													9	CY	34
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													9	CY	103
	Subtotal																			168
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			3258

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	27 Refuse/Non-Coal Waste Pile																			
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP																		
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Slab																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	28 Electrical Grounding Field																			
	Structure's Demolition Cost	Backhoe loader, 2 laborers, equip operator	Crew B-6	1980.00	Day									1				1	Day	1980
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton													1	Ton	6
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			1986
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			1986

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	29 Sedimentation Pond Spillways																			
	Pond #2 Barrel Excavation	Excavation Bulk Bank 2 CY (3220L)	31 23 16.42 0260	1.81	CY	165	1.5	3								FT		28	CY	50
	Subtotal																			50
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Pond #1 - 30" Principal Riser	Demolition, CMP pipe, steel, 30"-36"	02 41 13.40 0160	17.65	LF	20							30	lb/ft		FT		20	FT	353
	Pond #1 - 30" Emergency Riser	Demolition, CMP pipe, steel, 30"-36"	02 41 13.40 0160	17.65	LF	19							30	lb/ft		FT		19	FT	335
	Pond #2 - 12" Principal Riser	Demolition, CMP pipe, steel, 12"	02 41 13.40 0110	2.60	LF	5							103	lb/ft		FT		5	FT	13
	Pond #2 - 15" Emergency Riser	Demolition, CMP pipe, steel, 18"	02 41 13.40 0160	3.90	LF	6							10	lb/ft		FT		6	FT	23
	Pond #2 Barrel (SP2-1)	Demolition, CMP pipe, steel, 18"	02 41 13.40 0160	3.90	LF	165							15	lb/ft		FT		165	FT	644
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							4100	lb					2	Tons	12
	Disposal Costs																			
	Subtotal																			1380
	Total																			1430

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	30 Existing ROM Conveyor																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	475	6	6								FT		17100	CF	4617
	Structure's Vol. Demolition																0.3	190	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scaling	6.00	Ton								460			lb/CY		46	Ton	276
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			4893
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.52	CY	24	24	1							3			64	CY	100
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														83	CY	183
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 mid. Trip	31 23 23.20 1014	3.74	CY													83	CY	310
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													83	CY	946
	Subtotal																			1539
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			6432

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	31 Portal Closure																			
	Canopy Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	10	16	10							8	EA		20480	CF	5530
	Structure's Vol. Demolition																0.5	228	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								460			lb/CY		55	Ton	330
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	SubTotal																			5860
	Earthwork - North & South Breakouts																			
	Cut and fill - North Breakout	Cut and fill common earth, 8" lift, 2 passes	G1030 1100	7.00	CY						80					CY		80	CY	560
	Cut and fill - South Breakout	Cut and fill common earth, 8" lift, 2 passes	G1030 1100	7.00	CY						20					CY		20	CY	140
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubTotal																			700
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubTotal																			0
	Portal Sealing																			
	Seal Construction	Seal portals, materials	JennChem	4320.00	EA										8	EA		8	EA	34560
	Labor	Seal portals, labor	JennChem	205.00	HR									4		HR		32	HR	6400
	Site preparation	Portal seal, site preparation crew	Crew B-1	1464.40	Day									1		Day		8	Day	11715
	Block retaining walls	Block wall, reinforced, 4" thick (2 each seal)	04 22 10.34 1500	8.50	SF		20	8.0		344					16	EA		5504	SF	46784
	Transportation Costs	Portal seal support, material haulage	Classic Helicopters	11995.00	Job										1	Job		1	Job	11995
	Disposal Costs																			
	SubTotal																			
	Total																			60312

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	32 Concrete Conveyor Bay																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	SubTotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubTotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						15							15	CY	24
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														20	CY	44
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 mil. Trip	31 23 23.20 1014	3.74	CY													20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													20	CY	228
	SubTotal																			371
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubTotal																			
	Total																			371

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	33 ROM Coal Staking Tube																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF			80	20							CF		25133	CF	6785
	Structure's Vol. Demolition																0.3	279	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	8.00	Ton								480			BCY		67	Ton	402
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			7188
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition	Concrete Wall/floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	25	25	5								FT		69	CY	108
	Concrete Cost																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													89	CY	199
	Transportation Costs	12 CY (10 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													89	CY	337
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													89	CY	1026
	Subtotal																			1670
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			8858

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	34 Mine MCC Building and Electrical Tower																			
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo.>12,500 SF	13 05 05.50 0650	1.68	SF Flr	30.5	12	9					480			lb/CY	0.3	300	SF Flr	615
	Elec Tower Demolition Cost	Torch cutting, steel, 1" thick plate	02 41 10 27 0020	3.21	LF	220							70.33			lb/FT		220	LF	706
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	8.00	Ton													17	Ton	102
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			1423
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Front End Loader 3CY	31 23 16.42 1300	2.21	CY	30.5	12	0.5										7	CY	15
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														9	CY	20
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 mi. Trip	31 23 23.20 1014	3.74	CY													9	CY	34
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													9	CY	103
	Subtotal																			172
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			1595

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	35 Backup Ventilation Fans																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost	Mechanical Equipment Demolition, Heavy	22 05 05.10 3000	1225.00	Ton							30				Ton		30	Ton	36750
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scaemp	6.00	Ton													30	Ton	180
	Disposal Costs																			
	Subtotal																			36930
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	20	20	0.5		400						SF		400	SF	628
	Concrete Vol. Demolished																			
	Loading Costs																		CY	0
	Transportation Costs																		CY	0
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						7.4						1.3	10	CY	110
	Subtotal																			738
	Shot Crete																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			37668

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	20 Main Ventilation Fan																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Helicopter	Portal seal support, material haulage	Classic Helicopters	11985.00	Job										0.2	Day		0.2	Day	2393
	Transportation Cost Steel Drive																			
	Subtotal																			2393
	Equipment's Disposal Cost																			
	Dismantling Cost	Mechanical Equipment Demolition, Heavy	23.05.05.10.3000	1225.00	Ton							28				Ton		28	Ton	34300
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton													28	Ton	168
	Disposal Costs																			
	Subtotal																			34468
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	20	20	0.5		400						SF		400	SF	628
	Concrete Vol. Demolished																			
	Loading Costs																		CY	0
	Transportation Costs																		CY	0
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						7.4						1.3	10	CY	110
	Subtotal																			738
	Shot Crete																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			37599

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	37 Non-Potable Water Tanks																			
	Structure's Demolition Cost	5000 to 12000 gal. aboveground steel tank removal	1203 05 75 0530	1825.00	EA										3	EA		3	EA	4875
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							2				Ton		2.00	Ton	12
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			4887
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Floor Demolition 6" thick, reinforced	02 41 16 17 0420	1.11	SF	15	15	0.5										225	SF	250
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16 42 1300	2.25	CY													146		329
	Transportation Costs	12 CY (18 Ton) Dump Truck, 1/2 mi. trip	31 23 23 20 1014	3.74	CY													146		546
	Disposal Costs	On Site Disposal	02 41 16 17 4200	11.40	CY													146		1664
	Subtotal																			2789
	Total																			7676

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Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	38 Powder and Cap Magazines																			
	Structure's Demolition Cost	Mechanical Equipment Demolition, Heavy	23 05 05.10 3600	1225.00	Ton							4				Ton		4	Ton	4900
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							4				Ton		4	Ton	24
	Transportation Cost Steel Drive																			
	Subtotal																			4924
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			4924

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	39 Chain Link Fence																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Fence Demolition	Chain link removal, 6'-10' high	02 41 13 60 1700	4.44	FT	1500										FT		1500	FT	6660
	Transportation and Disposal	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								3.5			lb/FT		2.6	Ton	16
	Subtotal																			6676
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			6676

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	40 Concrete Electrical Junction Box																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Footing																			
	Structure	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	2	2	1			1					CY		1	CY	2
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	4	1			2					CY		2	CY	3
	Concrete Vol. Demolished																1.2	4	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													4	CY	9
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rpd. Trip	31 23 23.20 1014	3.74	CY													4	CY	15
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													4	CY	46
	Subtotal																			72
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			72

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	41 Loadout MCC Building																			
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo.>12,500 SF	13 05 05 50 0650	1.68	SF Flr	16	8	8										128	SF Flr	215
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			8xCY	0.3	3	Ton	18
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			233
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Front End Loader 3CY	31 23 16.42 1300	2.21	CY	10	8	0.5										2	CY	4
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														3	CY	7
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													3	CY	11
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													3	CY	34
	Subtotal																			56
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			289

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	42 Mine Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick	02 41 13.17 5050	8.60	SY			9.33		27800						SF		3089	SY	30272
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						340					CY	1.3	442	CY	5039
	Subtotal																			35311
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			35311

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	43 Abandoned Concrete Reclaim Room																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Fence Demolition																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	15	20	10				111			2	CY		222	CY	349
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													289	CY	639
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 md. Trip	31 23 23.20 1014	3.74	CY													289	CY	1081
	Disposal Costs	On Site Disposal	02 41 16.17 4300	11.40	CY													289	CY	3295
	Subtotal																			5364
	Total																			5364

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	44 Jersey Barrier																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Median Barrier	Median barrier, precast conc, remove and store	02 41 13.30 1600	14.00	FT	760												760	FT	10640
	Subtotal																			10640
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			10640

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	45 Concrete Trash Chute																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Walls					10	10	0.67				5				CY				
	Walls					50	10	0.67				25				CY				
	Floor					52	12	1				23				CY				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinfor	02 41 16.17 2500	1.57	CY							53				CY		53	CY	83
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													69	CY	152
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 rod. Trip	31 23 23 20 1014	3.74	CY													69	CY	258
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													69	CY	787
	Subtotal																			1280
	Total																			1280

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	40 Emergency Reclaim Feeder Gate																			
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb	05 05 05.10 0300	68.00	EA.													1	EA.	68
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton	3	3						20.4			lb/SF		0.09	Ton	1
	Transportation Cost Steel Drive																			
	Subtotal																			69
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Foundation																			
	Tube																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			69

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Ref.	Description	Materials
	47 Gantry Lift Assembly	
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb
	Structure's Demolition Cost	Fabricated steel demo, 501-1000 lb
	Rubble's Weight (exclude steel)	
	Truck's Capacity	
	Haulage	
	Transportation Cost Non Steel Truck	
	Transportation Cost Non Steel Drive	
	Disposal Cost Non Steel	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation & Disposal Cost Steel	
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Footings	Concrete, Selective Demo, Reinf 1-2% of X Sec
	Concrete Vol. Demolished	
	Loading Costs	Front End Loader 3CY
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Foundation	Concrete, Selective Demo, Reinf 1-2% of X Sec
	Tube	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	Front End Loader 3CY
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Costs	On Site Disposal
	Subtotal	
	Total	

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Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume
05 05 05.10 0390	68.00	EA.						
02 41 19.27 0020	91.00	EA.						
03 05 05.10 0060	167.00	CY	80	1.33	1.75			186
31 23 16.42 1300	2.21	CY						
31 23 23.20 1014	3.74	CY						
02 41 16.17 4200	11.40	CY						
03 05 05.10 0060	167.00	CY	85.33	4	1.33			454
31 23 16.42 1300	2.21	CY						
31 23 23.20 1014	3.74	CY						
02 41 16.17 4200	11.40	CY						

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Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
						12	EA.	816
						4	EA.	364
								1180
								0
						7	CY	1169
					1.3			
						9	CY	20
						9	CY	34
						9	CY	103
								1326
						17	CY	2839
					1.3	22	CY	
						22	CY	49
						22	CY	82
						22	CY	251
								3221
								5727

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Substation																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude shaft)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			0
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA	26 05 05.10 1570	1700.00	EA.										2			2	EA.	3400
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs	Hydraulic crane, 12 ton, with operator	Crew A-2H	1518.58	Day													1	Day	1519
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scaling	6.00	Ton													7	Ton	42
	Subtotal																			4961
	Fence Demolition	Chain link removal, 6'-10' high	02 41 13.60 1700	4.44	FT	654										FT		654	FT	2904
	Subtotal																			2904
	Concrete Demolition																			
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	20	20	0.5							400	SF		400	SF	444
	Concrete Vol. Demolished														7.4	CY	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													9.62	CY	21
	Transportation Costs	12 CY (15 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													9.62	CY	36
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													9.62	CY	110
	Subtotal																			611
	Total																			8476

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Paved Mine Roads																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick	02 41 13.17 5050	9.80	SY	1002	24	0.5		46308						SF		5152	SY	50490
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						859					CY	1.3	1117	CY	12734
	Subtotal																			63224
	Concrete Demolition																			
	Concrete Cost			-																-
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal			-																-
	Total																			63224

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Culvert Demolition																			
	DC-1	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	1.5	3								FT		10	CY	18
	DC-2	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	1.5	3								FT		10	CY	18
	DC-3	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	65	1.5	3								FT		11	CY	20
	DC-4	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	400	2	3								FT		89	CY	161
	DC-5	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	350	2	3								FT		78	CY	141
	DC-6	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	107	2	3								FT		24	CY	43
	DC-7	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	155	2	3								FT		34	CY	62
	DC-8	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	167	2	3								FT		37	CY	67
	DC-9	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	186	2	3								FT		41	CY	75
	DC-10	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	2	3								FT		13	CY	24
	DC-11	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	101	2	3								FT		22	CY	41
	DC-12a	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	140	2.5	3.5								FT		45	CY	82
	DC-12b	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	79	2.5	3								FT		22	CY	40
	DC-12c	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	357	2.5	3								FT		99	CY	179
	DC-12d	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	9	2.5	3.5								FT		3	CY	5
	DC-13	**PREVIOUSLY REMOVED**																		0
	DC-14	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	40	1.5	3								FT		7	CY	12
	DC-15	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	45	1.5	3								FT		8	CY	14
	DC-16	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	25	1.5	3								FT		4	CY	8
	DC-17	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	120	1.5	3								FT		20	CY	36
	DC-18	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	27	1.5	3								FT		5	CY	8
	UC-1	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	120	5	6								FT		133	CY	241
	UC-1a	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81		360	5	6								FT		400	CY	724
	Subtotal																			2029
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Demolition Cost 18" CMP	Demolition, CMP pipe, steel, 18"	02 41 13.40 0160	3.90	LF	402							15	lb/ft		FT		402	FT	1568
	Demolition Cost 24" CMP	Demolition, CMP pipe, steel, 24"	02 41 13.40 0170	14.70	LF	2151							19	lb/ft		FT		2151	FT	31620
	Demolition Cost 60" CMP	Demolition, CMP pipe, steel, 48-60"	24 41 13.40 0100	22.00	LF	480							103	lb/ft				480	FT	10560
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							96339	lb					48	Tons	289
	Disposal Costs																			
	Subtotal																			44036
	Total																			46065

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Lila Old Fan Portals																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	SubTotal																			
	Old Horse Canyon Lila Fan Portals																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation and Disposal Cost All																			
	Disposal Costs																			
	Subtotal																			0
	Portal Sealing																			
	Seal Construction	Seal portals, materials	JennChem	4320.00	EA.										2	EA.		2	EA.	8640
	Labor	Seal portals, labor	JennChem	265.00	HR									8		HR		10	HR	4240
	Site preparation	Portal seal, site preparation crew	Crew B-1	1464.40	Day									2		Day		4	Day	5858
	Rock retaining walls	Rock wall, reinforced, 4" thick (2 each area	04 22 10 34 1500	8.50	SF		20	8.5		344					2			688	SF	5848
	Subtotal																			24586
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	SubTotal																			
	Total																			24586

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Visual Disconnect																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	30	8								FT		4800	CF	1296
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	40	10	8								FT		3200	CF	864
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		71	Ton	426
	Transportation Cost Steel Drive																			
	Subtotal																			2586
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished	Mechanical Equipment Demolition, Heavy	23 05 05.10 3800	1225.00	Ton							1				Ton		3	Ton	3675
	Loading Costs																			
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton															
	Disposal Costs																			
	Subtotal																			3675
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demp, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	6	0.5								FT		0.4	CY	1
	Concrete Vol. Demolished																1.3	1	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													1	CY	2
	Transportation Costs	12 CY (18 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													1	CY	4
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													1	CY	11
	Subtotal																			18
	Total																			6279

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Drop Box																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Footing																			
	Structure	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	2	2	3.44			2					CY		2	CY	3
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	4	1.5			4					CY		4	CY	6
	Concrete Vol. Demolished																1.3	8	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													8	CY	18
	Transportation Costs	12 CY (15 Ton) Dump Truck 1/2 rad. Trip	31 23 23.20 1014	3.74	CY													8	CY	30
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													8	CY	91
	Subtotal																			145
	Concrete Demolition																			
	Concrete Cost		-																-	
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																		-	
	Total																			145

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Lila Canyon Mine Reclamation Bond Estimate
Earthwork Costs

Description	Quantity	Units	Production Rate	Units	Production Time	Units	Materials/Equipment/Labor	Cost Reference RSMeans Ref #	Unit Cost	Units	Quantity	Cost
Mine Site Earthwork Estimate												
Load and Haul Backfill												
631G (9-51)(2nd04)	43783	CY	393	CY/HR	111.4	HR	Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	111.4	$46,587
Spread, Compact, and Scarify Backfill												
D8, Track-mounted	43783	CY	1850	CY/Day	23.7	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	23.7	$70,579
825G (6-13)(4Q03)	43783	CY	4100	CY/Day	10.7	Day	Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	Crew B-10G	2313.60	Day	10.7	$24,756
Scarify subsoil	28.70	ac	240	MSF/Day	5.2	Day	75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	1250	$7,313
Backfill, Grade, and Scarify Upper Road Area												
770 (20-11)(3Q03	5000	CY	882	CY/Day	5.7	Day	Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	5.7	$12,738
988G EROPS (9-38)(3Q04)	5000	CY	1480	CY/Day	3.4	Day	Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	3.4	$14,642
D8, Track-mounted	5000	CY	1850	CY/Day	2.7	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	2.7	$8,041
Scarify subsoil	4.24	ac	240	MSF/Day	0.8	Day	75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	185	$1,082
Load, Haul, and Spread Topsoil - Main Area												
631G (9-51)(2nd04)	61086	CY	393	CY/HR	155.4	HR	Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	155.4	$64,988
D9R Semi-U EROPS (9-54 (2H04)	61086	CY	1850	CY/Day	33	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	33	$98,274
Load, Haul, and Spread Topsoil - Upper Road Area												
770 (20-11)(3Q03	10000	CY	882	CY/Day	11.3	Day	Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	11.3	$25,253
988G EROPS (9-38)(3Q04)	10000	CY	1480	CY/Day	6.8	Day	Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	6.8	$29,284
D8, Track-mounted	10000	CY	1850	CY/Day	5.4	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	5.4	$16,081
Support												
Water Truck							5000 gallon water truck	Crew B-9A	2041.01	Day	16.0	$32,656
Subtotal												**$452,273**

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Lila Canyon Mine Reclamation Bond Estimate
Revegetation Costs

Ref.	Description	Materials	Mines Reference Number	Unit Cost	Unit	Area	Volume	Weight	Density	Time	Number	Unit	Load Factor	Quantity	Unit	Cost
	Mine Site Revegetation Estimate															
	Ground Preparation															
	Packing	Excavation Bulk Bank 2 CY (3226L)	31 23 16.42 0200	1.81	CY	37.02	ac		340	CY/ac				12586.8	CY	22782
	Site Revegetation															
	Mulch Material, Labor, and Equipment	Power mulcher, large, hay 1" deep	32 91 13.16 0300	30.60	MSF	37.02						ac		1013	MSF	49197
	Seeding Material	Lila Canyon Seed Mix (see below)	Great Basin Seed	155.80	ac	37.02						ac		37.00	AC	5764
	Seeding Equipment and Labor	Hydroseeder (equipment and labor only)	32 92 19.14 4600	22.00	MSF	37.02						ac		1013	MSF	35488
	Fertilizer equipment, materials, & labor	Fertilizer, hydro spread, 1.5 lb/MSF	32 01 90.13 0180	5.00	MSF	37.02						ac		1013	MSF	8065
	Subtotal															
	Mine Site															121,294
	Re-revegetate 25% of area															30324
	Subtotal															30,324
	Total															**151,618**

Seed mix cost based on the application rates provided in Table 3.4/3.5 of the MRP
Seed prices downloaded October 2017 from greatbasinseeds.com

Common Name	Seeding Rate (lb PLS/ac)	Unit Cost ($/lb)	Mix Cost ($/ac)
Grasses			
Needle and Thread	2.00	39.5	79.00
Indian Ricegrass	2.00	6.95	13.90
Basin Wild Rye	1.00	16.95	16.95
Galleta	1.00	24.00	24.00
Bluebunch Wheatgrass	1.00	8.95	8.95
Slender Wheatgrass	2.00	2.95	5.90
Blue Gramma	1.00	16.00	16.00
Forbs			
Blue Flax	1.00	8.75	8.75
Palmer penstemon	0.25	10.00	2.50
Globemallow	0.50	59.00	29.50
Indian Paintbrush	0.10	150.00	15.00
Fringed Sage	0.10	18.00	1.80
Shrubs			
Wyoming Big Sage	0.25	9.50	2.38
Green Rabbitbrush	0.10	18.00	1.80
Fourwing Saltbush	0.84	13.00	10.92
Winterfat	1.00	18.00	18.00
Shadscale	1.00	9.00	9.00
Cliffrose	1.00	38.00	38.00
Black Sage	0.25	15.95	3.99
		Subtotal =	141.63
		10% increase to account for PLS requirement =	14.16
		Seed mix unit cost =	155.80

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