

Application for Permit Processing

Detailed Schedule of Changes to the MRP

L20-001 Surface Facility Update

C/007/0013
Clean Copies
Received 4/10/20
Task #6079

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
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 5-2 Surface Facilities
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Ch. 5 pgs 10, 11, 12, 13, 14, 18, 23, 25, 24 & 30
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Bonding Tabs 1, 3, 10, 13, 15, 29, 36, 42, 49, 50, and 54
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

perform minor equipment repairs. The building measures approximately 30' by 62'. Once long-term offices and the long-term Shop/Warehouse have been constructed, the temporary office / shop building will be raised. A temporary shop structure will be assembled on the Temporary Storage Pad and is located on Plate 5-2 As-Built Surface Facilities. This structure will consist of a 40'x60' tent, similar to the storage tent already on site, and two conex trailers. There will be a 40'x40'x8" concrete pad underneath it.

4) Temporary Storage Shed (Wooden)

The temporary wooden storage sheds measure approximately 8'x8'x8' and 10' by 20' by 8' high, with a wooden floor structure. The sheds are used to store various equipment and supplies needed for mine operations. Multiple sheds are currently used. The locations of these sheds are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage sheds will be removed.

5) Temporary Storage Building (Metal)

The temporary metal storage buildings are prefabricated, metal, intermodal container used for storage. These structures are sometimes referred to as "conex containers." The containers are typically 20' to 40' long by 8' wide by 8.5' high. These structures are used to store various equipment and supplies needed for mine operations. The metal storage structures typically provide a higher level of security than do wooden sheds. Multiple metal storage buildings are currently used. The locations of these buildings are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage buildings will be removed.

7) Temporary Office Building

The temporary office / storage building is shown on Plate 5-2. The office space is used by mine personnel in support positions to mine operations. The building measures 20' by 12' by 10' high. The building is a wood frame on a concrete foundation. The floor is a 4" thick concrete slab. Once the long-term office areas and Shop/Warehouse have been constructed, the temporary office building will be razed.

9) Temporary Storage Tent with Concrete Floor

The temporary storage tent is constructed of an arched metal wall/roof structure covered with a canvas overlay. The tent rests on a 6" concrete floor slab. Two tents are currently in use at the mine site. One tent measures 30' by 30'. The other measures 70' by 48'. The tents are used to store large wares and supplies needed for mining operations that need some protection from the weather. The temporary storage tents with concrete floors are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage tents and associated concrete floor slabs will be removed.

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22) Temporary Crusher / Screen Building

The temporary crusher / screen building is shown on Plate 5-2, and houses the screen and crusher assemblies. The screen assembly sorts the coal as it enters the building, via the temporary crusher conveyor (see #21 below), between the larger lump sizes that need to be crushed (2"-8" in size) and the smaller nuggets that do not need to be crushed (less than 2" in size). The crusher assembly reduces the larger 2" to 8" sized coal lumps to nuggets measuring less than 2" in size. The coal that is now 2" or less in size falls onto the crushed coal conveyor (see #23 below) and exits the building. The building itself is constructed of a wide flange steel frame and rests on a 12" thick monolithic concrete slab base. The building measures approximately 48' by 22', and stands approximately 58' at its peak. The temporary crusher / screen building has been constructed to meet MSHA regulations. Once the long-term coal handling facilities have been constructed, the temporary crusher / screen building will be razed.

33) Shop / Warehouse Building

The shop / warehouse building is shown on Plate 5-2. This building will be a long-term structure used to repair machinery and vehicles associated with mine operations, and shall store various wares associated with mine operations. The building will be 120 feet long by 60 feet deep. The roof will be sloped for drainage. The facility will be approximately 36 feet high at the peak of the roof. The building will be constructed of a poured concrete footing and foundation system and floor. The walls and roof will be of pre-fabricated steel. Several roll-up type overhead doors will allow vehicles to enter the building for repair and maintenance. One bay will have overhead doors on the front and rear of the building to allow trucks to enter the building on one side, load or off load wares or equipment, then exit the building through the opposite side of the structure. The building will also house a large capacity overhead crane that will be used to lift heavy objects and equipment. This structure will remain throughout the life of the mine, and will be removed at the time of final reclamation.

UTILITIES

Mine Substation

The mine substation is shown on Plate 5-2, and provides power to surface and underground areas of the mine property. The substation includes approximately four transformers setting on a concrete pad approximately 20' by 20' by 12" and fully fenced. The total fenced area of the substation is approximately 215' by 112'. Power is fed into the transformers at 138 KVA and will be transformed down to usable voltages for both the surface and underground facilities. It is anticipated that voltages of 110V, 220V, 440V will be used on the surface, and 12,470 volts will be

utilized underground. The mine substation is constructed to fulfill all appropriate MSHA regulations. The Mine Substation will remain throughout the life of the mine, and will be removed during final reclamation.

8) Potable Water Tanks

The potable water tanks are shown on Plate 5-2. Potable water is purchased off-site and is transported to the mine site via tanker truck, which in turn fills the tanks. The potable water is stored in one 15' diameter by 20' high metal tank and two (2) 20' by 8' by 8' high conex-type cubic tanks. Water from these tanks are used for toilets and showering in the temporary bath house (see #1 above). The round tank is set on a 15' by 15' concrete pad designed for adequate support of the tank. The cubic tanks are self-contained and rest on native soil. The location of the potable water tanks can be found on Plate 5-2. The potable water tanks will remain throughout the life of the mine, and will be removed during final reclamation.

10) Power Poles

Multiple wooden power poles are utilized throughout the disturbed area. Locations of power poles are shown on Plate 5-2. The power poles are large, upright wooden poles used to support overhead power transmission lines and other wires as needed. The power poles will remain throughout the life of the mine and will be removed during final reclamation.

11) Electrical Transformer

An electrical transformer is used to adjust and transfer electrical energy in electric power applications. Each transformer rests on a 4" thick concrete slab of suitable size to support the weight of the transformer. The transformer feeds various mine facilities. Multiple transformers are currently utilized. Their locations are shown on Plate 5-2. Transformers will be removed as their respective temporary facilities are removed and replaced upon the completion of long-term facilities).

12) Overhead Power Transmission Lines

Within the disturbed area, both overhead and underground power lines will be utilized. Overhead power lines will be run where underground power lines are not feasible. Vertical power poles (see #10 above) support the overhead lines to provide adequate and safe clearances below the power transmission lines. The overhead power transmission lines have been spaced to protect raptors. As-built drawings will be provided upon completion of the long-term surface facilities. Overhead power lines will be remain through the life of the mine, and will be removed upon final reclamation.

13) Buried Power Transmission Lines

Within the disturbed area both overhead and buried power lines will be utilized.

Buried power transmission lines will be run where feasible. All buried power transmission lines will be run in conduits. As-built drawings will be provided upon completion of the long-term surface facilities. Long-term underground power lines will remain throughout the life of the mine. Upon final reclamation, the long-term underground power transmission lines will be abandoned and left in place. To protect the underground high voltage cable from damage caused by equipment on the main access road, an 8'x20' steel sled has been buried on top of the cable.

28) Electrical Grounding Field

The electrical grounding field is composed of a grounding grid and rods buried below the soil. The electrical grounding field has been designed and constructed to meet MSHA requirements and regulations. It is used to ground the Mine Substation (see above). The location of the electrical grounding field is shown on Plate 5-2. The electrical grounding field will remain throughout the life of the mine, and will be removed during final reclamation.

37) Non-Potable Water Storage Tanks

Three non-potable water storage tanks are used to store water for mine-related purposes including dust suppression on roadways and other points as required by the approved Air Quality Order. The location of the non-potable water storage tanks is shown on Plate 5-2. The non-potable water storage tanks will remain throughout the life of the mine, and will be removed upon final reclamation.

40) Concrete Electrical Junction Box

The location of the concrete electrical junction box is shown on Plate 5-2. The concrete electrical junction box is a buried 6' by 6' by 6' concrete box with 6" thick walls, top and floor. A steel manhole allows access to the interior of the box. Within the junction box, high-voltage connections are made that allow power to be transferred from the Mine Substation to the overhead power lines. The concrete electrical junction box will remain throughout the life of the mine, and will be removed upon final reclamation.

41) Temporary Concrete Septic Tank

The temporary concrete septic tank facilitates the existing employees working on rotating shifts. The tanks are used in conjunction with the tanks that are a part of the bath house trailer (see #1 above) and other temporary office trailers (see #2 above). The tanks will be pumped out regularly. Multiple tanks are currently used. The locations of these tanks are shown on Plate 5-2. The temporary concrete septic tanks will be removed upon the completion of the long-term office areas and long-term bath house facilities.

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27) Temporary Concrete Equipment Pad

The temporary concrete equipment pad is a portion of the temporary coal handling facilities for the mine. The pad is a 12" thick, steel reinforced concrete slab. The drive motor and take-up equipment for the temporary crushed coal conveyor (see #21 above) rest upon this concrete pad. The concrete equipment pad is shown on Plate 5-2. The concrete equipment pad will remain until final reclamation, at which point it will be buried with other concrete materials as described in the Reclamation Plan.

30) Existing ROM Coal Conveyor from Underground (60")

The ROM (Run of Mine) coal conveyor from underground is a part of the temporary AND long-term coal handling facilities for the mine. The ROM coal conveyor from underground ties into the coal conveyor system within the underground mine workings to convey mined coal from the working face to the surface. The surface portion of the ROM coal conveyor measures approximately 300' long. The assembly is a steel framework, supported by steel bents on concrete foundations, running a 60" conveyor belt. The ROM coal conveyor from underground is shown on Plate 5-2. The existing ROM coal conveyor from underground will remain through the life of the mine. The alignment and elevation of the conveyor structure are such that when the long-term coal handling system is constructed, the existing ROM coal conveyor structure will be extended to the future ROM coal stacking tube. The entire assembly (existing and future) will be removed upon final reclamation.

31) Steel Portal Canopy Structure

A steel portal canopy structure is constructed at each portal of the mine. The canopy consists of steel wide flange posts and beams, and sheathed with steel plate. The canopy structure protects the portals (openings) to the underground workings. The canopies are constructed to meet MSHA regulations. Multiple steel portal canopy structures are utilized for the mine. The locations of the steel portal canopies are shown on Plates 5-2 and 5-2a, and in Appendix 5-9. The steel portal canopy structures will each remain throughout the life of the mine, or until its respective portal is no longer necessary and is sealed and reclaimed; whichever comes first. All remaining steel portal canopy structures will be removed during final reclamation.

32) Concrete Conveyor Bay at Belt Portal

The concrete conveyor bay at the belt portal is a portion of the temporary AND long-term coal handling facilities for the mine. The bay was originally used to house the belt drive for the original ROM conveyor structure, which has since been removed. The concrete conveyor bay now cradles and

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constructed, and maintained according to appropriate R645 regulations. The slope access road is shown on Plate 5-2. The slope access road will remain throughout the life of the mine, and will be removed during final reclamation. There are 3 convex traffic mirrors mounted on metal poles located along this road, to assist with visibility around corners.

Storage Pad

A supply and materials storage pad is constructed directly south of the Mine Substation (see above), but within the existing disturbed boundary line as shown on Plate 5-2. The pad is constructed similarly to the existing Lower, Middle and Upper Pads (see Chapter 2, Section 232.500), with a gravel covering. The storage pad is needed so large trucks delivering and/or collecting materials and supplies will not congest the parking and supply areas already in-place on the Lower Pad, or interfere with the Mine Facilities Access Road / Truck Loadout Road (see above) and trucks preparing to load coal or loaded trucks hauling coal from the mine site. Moving the delivery trucks to the storage pad will reduce vehicle congestion, and decrease the possibility of accidents resulting from said congestion. The storage pad will be utilized throughout the life of the mine, and will be reclaimed per the Reclamation Plan. There is a 3'x10' steel foot bridge connecting this storage pad to the undisturbed area between it and the substation. This is for foot traffic to access the rain monitoring gauge that is located in that area. The rain gauge is a single pole holding a rain collection data devise.

Storage Pad Access Road

The storage pad access road will extend from the Middle Pad to the Storage Pad (see above), which lies just south the Mine Substation (see above). The storage pad access road will be used to provide access between the two pads for mine personnel, equipment and supplies. Since the storage pad access road will provide access for men, equipment and materials for a period of six months or longer, the new storage pad access road is classified as a primary road, and will be paved. The new storage pad access road has been designed and will be constructed and maintained according to appropriate R645 regulations. The storage pad access road is shown on Plate 5-2. The storage pad access road will remain throughout the life of the mine, and will be removed upon final reclamation.

Storage Pad Service Road

The storage pad service road, shown on Plate 5-2, will begin at the edge of County Road 164 (Lila Canyon Road), and will allow for access to the storage pad (see above) directly south of the Mine Substation (see above). The first approximately 350 feet of the storage pad service road from County Road 164 (Lila Canyon Road) will be a reworking of the existing County Road RS-2477. The storage pad service road will then continue to the storage pad (see above). The storage pad service road will be approximately 30 feet wide and provide access for trucks to deliver and/or collect supplies, materials or equipment related to mine activities, without

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increasing congestion on the mine facilities access road / truck loadout road (see above). Since the storage pad service road will provide access for men, equipment and materials for a period of six months or longer, the storage pad service road is classified as a primary road, and will be paved. The storage pad service road has been designed and will be constructed and maintained according to appropriate R645 regulations. The storage pad service road is shown on Plate 5-2. The storage pad service road will be removed during the course of construction of the long-term coal handling facilities. The portion of the storage pad road that lies along the existing County Road RS-2477 may remain or be reclaimed. The BLM and Emery County will be consulted when appropriate, and the Division will be advised as to the course of action for the roadway (remain or be reclaimed). Access to the storage pad (see above) will be rerouted through the new truck loadout road when the long-term truck loadout road is completed. When this happens, the existing truck loop will become the new truck loading/unloading area for the future warehouse on the Upper Pad.

Topsoil Pile

The topsoil pile has been located on the southwest end of the surface facilities. The pile has been designed to contain adequate topsoil for redistribution according to the reclamation plan found in Chapter 5. The proposed location provides for good protection from wind contamination, as well as protection from mine related activities. The location of the topsoil pile is shown on Plate 5-2. The topsoil will be redistributed across the disturbed area according to the mine reclamation plan.

6) Temporary Concrete Walkway

Temporary concrete walkways have been constructed at temporary buildings, the temporary bath house (see #1 above) and temporary office trailers (see #2 above). The walkways are generally 6' wide by 4" thick. The locations of the temporary concrete walkways are shown on Plate 5-2. The temporary concrete walkways will be removed as their respective temporary buildings are removed.

15) Temporary Fuel Storage Tanks

The temporary locations of the fuel storage tanks are on the Middle Pad as shown on Plate 5-2. The tanks are bulk fuel storage tanks containing gasoline or diesel fuel for mine vehicles. The tanks are supported by steel legs above integral steel secondary containment basins. Upon completion of the long-term surface facilities' construction, the fuel tanks will be relocated to their long-term location on the Upper Pad. The fuel tanks will remain in their long-term locations for the life of the mine, and will be removed upon final reclamation.

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- 521.161** Proposed buildings, utility corridors, and facilities are shown on Plate 5-2, as well as others.
- 521.162** The area of land affected according to the sequence of mining and reclamation is shown on the appropriate plates.
- 521.163** Land for which a performance bond will be posted is shown on the appropriate plate. Plate 5-2 as well as others, show the area for which the performance bond will be posted. All disturbed areas within the permit boundary have been bonded.
- 521.164** Existing coal storage and loading areas are shown on Plates 5-2 and certified as required. Future coal storage and loading areas are certified as required. Additional information can be found in Appendix 5-4.
- 521.165** Topsoil and waste piles are shown on Plate 5-2, as well as others.
- 521.166** The waste disposal areas are shown for non-coal waste and underground mine waste on Plate 5-2.
- 521.167** No explosives are expected to be stored on-site. However, if explosives are stored, they will be stored as discussed in Section 520. on Plate 5-2.
- 521.168** Since Lila Canyon mine is an underground operation, this paragraph is not applicable.
- 521.169** The refuse pile is shown on Plate 5-2 and discussed in Appendix 5-7.
- 521.170** Transportation facility maps describing roads and conveyors maintained within the permit are shown with descriptions of roads, embankments, culverts,

Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$960,188.00
Subtotal Backfilling and Grading	\$567,433.00
Subtotal Revegetation	\$151,618.00

Direct Costs in 2017 Dollars	\$1,679,239.00
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Indirect Costs

Mob/Demob	\$167,924.00	10.0%
Contingency	\$83,962.00	5.0%
Engineering Redesign	\$41,981.00	2.5%
Main Office Expense	\$114,188.00	6.8%
Project Management Fee	\$41,981.00	2.5%

Subtotal Indirect Costs 2017 Dollars	\$450,036.00	26.8%
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Total Cost	\$2,129,275.00
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Escalation factor		0.0232
Number of years		2
Escalation	\$99,944.00	

Total Reclamation Cost 2021 Dollars	\$2,229,219.00
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Bond Amount (rounded to nearest \$1,000) 2021 dollars	\$2,229,000.00
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Bond Posted	\$2,166,000.00
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Difference Between Posted Bond and Cost Estimate	-\$63,000.00
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Rider
updated
January
28 2020

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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 culling, steel, 1" thick plate	3.21	LF	Unit cost reduced 30% for no interior walls (see 02 41 16.13 5000)
02 41 16.13 0020	Building Demolition - Steel	0.27	CF	
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 Fir	
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 (see 02 41 16.17 2600)
02 41 16.17 2500	Concrete Wall/Floor Demo, 12" thick, reinforced	1.57	SF	
03 05 05.10 0060	Concrete, Selective Demo, Reinf 1-2% of X Sec	187.00	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	4305.40	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. undgrnd 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 Conex units offsite	12.10	Mile	
02 41 13.30 0100	Remove roadside delineator	49.35	EA	Increased 200% per 02 41 13.30 4400
02 41 13.96 0800	Demo/Remove steps, 3 risers	94.50	EA	
02 41 13.40 0240	Demolition, CMP end section, 60"	445.00	EA	

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Lila Canyon Mine Reclamation Bond Estimate
Demolition and Removal Cost Summary

Structure/Item	Cost (\$)
01 Office/Bathhouse	49,516
02 ROM Coal Stockpile	0
03 Shop/Warehouse	327,648
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	13,121
11 Electrical Transformers	4,961
12 Overhead Power Lines	2,952
13 Buried Power Lines	860
14 Rock Dust Silo	3,147
15 Fuel & Oil Tanks	8,143
16 Reclaim Tunnel	23,160
17 Reclaim Conveyor	3,709
18 Conveyor to Loadout Bin	4,341
19 Crusher MCC Building	364
20 Truck Loadout	7,270
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 Structures	1,583
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	37,698
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	36,390
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	63,372
Culvert Demolition	46,500
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
Rain Gauges	303
TOTAL	960,188

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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 Vol. Demolition Cost	Pre-engineered steel bldg demo >12,500 SF	13 05 05.50 0850	1.69 SF FV	150	100	15			15000	225000						0.3	15000	SF FV	25200	
	Structure's Vol. Demolition	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40 CF				10		432	4320						0.3	1296	CF	518	
	Bathhouse New Addition Demo																				
	Truck's Capacity																				
	House																				
	Leading Cost Bathhouse New	Front End Loader 3CY	31 23 16.42 1300	2.21 CY																48	106
	Transportation Cost Bathhouse New	12 CY 115 Ton Dump Truck 1/2 road 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																54	616
	Street's Vertical																				
	Demo Street Sides	Demo/Remove 4200, 3 hours	02 41 13.55 0950	94.50 EA																4	373
	House																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00 Ton									486							608	3648
	Disposal Cost Steel Drive																				
	Disposal Cost Steel																				0
	Equipment's Disposal Cost																				30667
	Demolition Cost																				
	Equipment's Vol. Demolished																				
	Lead Conex Units	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.68 Day											1	Day				8	1519
	Haul Conex Units to SLC, UT	Haul Conex units offsite	01 52 13.20 0800	12.10 Mile											140	Miles				8	13252
	Disposal Costs																				
	Sitehaul																				16671
	Office Trailers	Haul Conex units offsite	01 52 13.20 0800	12.10 Mile																2	3233
	Demolition Agency	Trench cutting, align, 1" thick plate	02 41 19.27 0220	3.21 LF			14													5	225
	Concrete Vol. Demolished																				
	Leading Costs																				
	Transportation Costs	Demolition debris, off-site haul and disposal	Scamp	6.00 Ton																	6
	Disposal Costs																				3919
	Sitehaul																				
	Concrete Walkway Demolition	Concrete Floor Demolition, 4" thick, reinforced	02 41 16.17 0200	0.89 SF		28	6	0.33		166										108	150
	Concrete Vol. Demolished																				
	Leading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Sitehaul																				
	On Site Disposal																				
	Sitehaul																				
	Total																				46910

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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 (Shop 1)	Pre-engineered steel bldg demo >12,500 SF	13 05 05 50 0650	1.68 SF F#		150	100	20		15000								15000 SF F#		25200	
	Structure's Vol. Demolition (Shop 1)	Pre-engineered steel bldg demo >12,500 SF	13 05 05 50 0650	1.68 SF F#		160	60	30		9600	300000		0.3					3333 CV		25200	
	Structure's Vol. Demolition (Shop 2)	Pre-engineered steel bldg demo >12,500 SF	13 05 05 50 0650	1.68 SF F#		70	50	14		3500	288000		0.3					3200 CV		16128	
	Structure's Vol. Demolition (Warehouse)	Pre-engineered steel bldg demo >12,500 SF	13 05 05 50 0650	1.68 SF F#							49000		0.3					3500 SF F#		5960	
	Transportation Cost Non Steel Truck																	544 CV			
	Transportation Cost Non Steel Drive																				
	Dispatch Cost Non Steel																				
	Truck's Capacity																				
	Transportation and Dispatch Cost All	Demolition debris, off-site haul and disposal	Scarp	6.00 Ton									480						1598 Ton	9408	
	Subtotal																			0	
	Equipment, Disposal Cost																			56818	
	Demolition Cost																				
	Equipment's Vol. Demolished																			1618	
	Load Concrete Units	Hydraulic crane, 12 ton, with separator	Crane A-3H	1518.58 Day										1		Day			10 EA	1618	
	Haul Concrete Units to Site, UT	Haul Concrete units offsite	01 02 13 20 0850	13.01 Mile											140 Miles					16910	
	Disposal Costs																			12159	
	Subtotal																				
	Slab																				
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick reinforced	02 41 16 17 2500	1.57 SF		420	250	1			3685									16490	
	Concrete Cost																				
	Concrete Vol. Demolished	Front End Loader 3CY	31 23 16 42 1300	2.21 CY																10958	
	Loading Costs	12 CY (18 Ton) Dump Truck 1/2 rd. Trip	31 23 23 20 1014	3.74 CY																11174	
	Disposal Costs	On Site Disposal	02 41 16 17 4200	11.40 CY																57655	
	Subtotal																			220971	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			327645	

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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.										16	EA.		16	EA.	5920	
	Structure's Demolition Cost	Wood cross arms, 4'-8" long	02 41 13.80 0300	136.00	EA.										16	EA.		16	EA.	2776	
	Rubble's Weight (excludes 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															5025	
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				
	Subtotal																			13171	
	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																			13171	

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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 10 1900	30.50	CLF	890									3			2670	FT	814	
	Steel Shed for Cable Production	Building Demolition - Steel	02 41 16 13 0020	0.27	CF	20		8	1		155							180	CF	43	
	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								201						0.54	Ton	3
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Disposal Cost Steel Drive																				
	Disposal Cost Steel																				
	Subtotal																				1650
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vot Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vot Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vot Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				1650

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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 & Oil Tanks																				
	Structure's Demolition Cost	5000 to 12000 gal. aboveground steel tank removal	1305 05 75 0530	1625.00	EA													1	EA	1625	
	Structure's Demolition Cost	Building Demolition - Binel	02 41 16.13 0020	0.27	CF			30	6		848							848	CF	229	
	Rubble's Weight (exclde steel)																				
	Trucks Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Trucks Capacity																				
	Haulage																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							2						4.00	Ton	24	
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Drive																				
	Subtotal																				1878
	Equipment Disposal Cost																				
	Tank Removal	3000 to 5000 gal. underground steel tank removal	02 65 10.30 0110	880.00	EA																2580
	Remove Sludge	3000 to 5000 gal. tank, sludge removal	02 65 10.30 0300	295.00	EA																855
	Tank Disposal	3000 to 5000 gal. tank, disposal, 100 mi RT	02 65 10.30 1023	030.00	EA																2490
	Sludge Disposal	Dispose of sludge off site	02 65 10.30 0390	6.80	Gal																340
	Subtotal																				6265
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vot Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vot Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				10151

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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 Structures																				
	Pond #2 Barrel Excavation	Excavation Bulk Bank 2 CY (3222B1)	31 23 16 42 0280	1 81	CY	165	1.5	3								FT		28	CY	50	
	Subtotal																				
	Outwalk to Pond Spillway	Building Demolition - Steel	02 41 16 13 0020	0 27	CF	60	3	3			540							540	CF	146	
	Dismantling Cost																				
	Equipment's Vol. Demolished										20										
	Loading Costs																				
	Transportation Costs																				
	Subtotal	Demolition debris, off-site haul and disposal	Scamp	6 00	Ton								0 2					0 3	1 2	Tons	7
	Pond #1 - 30" Principal Riser	Demolition CMP pipe, steel, 30"-36"	02 41 13 40 0180	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 0180	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							4 160	lb						2	Tons	12
	Subtotal																				1380
	Disposal Costs																				1403
	Subtotal																				
	Total																				1403

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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	
	36 Main Ventilation Fan																				
	Structure's Vol Demolition Cost																				
	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																				
	Transportation Cost Steel Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Demolition Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transportation and Disposal Cost All																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Coat																				
	Concrete Pad Backfill Fan Pw Cont																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Shotcrete																				
	Concrete Vol Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	42 Mine Parking																				
	Woods Shed Demolition Cost	Building Demolition - Rubble of Trusses	02 41 16 13 0100	0.40	CF	3	3	3			512				4			512	CF	\$19	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	On Site Disposal	02 41 16 17 4200	11.40	CV							18			4		0.3	22.8	CV	260	
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Drive																				
	Subtotal																				1072
	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	9.80	SY			0.33		27800											30272
	Disposal Costs	On Site Disposal	02 41 16 17 4200	11.40	CV						340										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	
	Paved Mine Roads																				
	Structure's Vol. Demolition Cost																				
	Rubber'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																				
	Demanting Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Pavement Removal																				
	Disposal Costs																				
	Remove Traffic Mirror																				
	Remove roadside delineator																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Curvert 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	187	2	3								FT		37	CY	67	
DC-9	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	188	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	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	40	1.5	3								FT		7	CY	12	
DC-14	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	45	1.5	3								FT		8	CY	14	
DC-15	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	25	1.5	3								FT		4	CY	8	
DC-16	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	120	1.5	3								FT		20	CY	36	
DC-17	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	27	1.5	3								FT		5	CY	8	
DC-18	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	120	5	6								FT		133	CY	241	
UC-1	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	CY	360	5	6								FT		400	CY	724	
UC-1a	Excavation Bulk Bank 2 CY (322BL)		31 23 16 42 0260	1.81	Ton											FT				2019	
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Demolition Coal 18" CMP	Demolition CMP pipe, steel, 18"	02 41 13 40 0180	3.90	LF	402															1595
	Demolition Coal 24" CMP	Demolition CMP pipe, steel, 24"	02 41 13 40 0170	14.70	LF	2151															31620
	Demolition Coal 60" CMP	Demolition CMP pipe, steel, 48-60"	24 41 13 40 0190	22.00	LF	480															10580
	Curvert Trash Rack, Barro	Demolition, CMP end section, 60"	02 41 13 40 0240	445.00	EA																445
	Loading Costs																				
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton																288
	Disposal Costs																				
	Subtotal																				44401
	Total																				46500

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