

lessen the chance of impairing the long-term productivity of the soil resource.

R645-301-231.200. Demonstration of the suitability of topsoil substitutes or supplements;

The typical structure for the Ravola soil series is in place within the Banning Loadout permit area. Therefore, no substitute topsoil is required or recommended. The values for the chemical parameters indicate that the site can be successfully revegetated with a seed mix of native plant species. Both nitrogen and the organic matter content will need to be supplemented to aid in sustaining the plants. While the pH, Sodium Absorption Ratio (SAR), and sodium values are relatively high, the recommended plant species are tolerant of these parameters. To ensure the success of the proposed reclamation plan, a test plot will be utilized.

The permittee will utilize these sediment materials from the Dugout Mine during final reclamation as top dressing over the sodic soils found in the vicinity of test pits TP-2 and TP-3 (Exhibit 3-1). Refer to Section R645-301-233 for additional information.

R645-301-231.300. Testing plan for evaluating the results of topsoil handling and reclamation procedures related to revegetation; and

DOGM and the Applicant have agreed to a test plot area which will be located approximately 200 feet south of the fenced area along the railroad tracks. This area, underlain by the Ravola soil, was used as a loadout area several years ago. It has been subjected to surface disturbance and vehicular traffic. Therefore, it will serve as a model test plot to allow observation of the success of the proposed reclamation plan as set out by R645-301-240, R645-301-340, and R645-301-540. The efficacy of the program will be monitored on a regular basis.

The test plot will be prepared, fertilized, seeded and mulched in the same manner as called for in the

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Mine # C/007/0034
File Interim #0001
Doc. Date 12.30.04
Recd. Date 1.03.05

previously mentioned reclamation plan. In particular, the soil will be ripped to a depth of 18 inches and **gouged leaving the surface in a roughened state** ~~then disced until the average clod size of the surface is less than 1 inch.~~ The recommended seed mix and plant nutrients will be applied to the prepared seed bed. The entire area will then be covered by 2,000 pounds per acre of alfalfa or native grass hay and ~~crimp-disced~~ **incorporated** into the soil.

The test plot location is indicated on Exhibit 3-1.

R645-301-231.400. *Narrative that describes the construction, modification, use and maintenance of topsoil handling and storage areas..*

As noted in R645-301-231.100, construction at Banning Loadout did not include the separation, segregation and storage of topsoil. Instead, topsoil was graded throughout the site to achieve desired elevations for specific needs or specific structure requirements.

Soil that has been disturbed during the construction of drainage control structures will be used as part of the berms, dikes, or sedimentation pond.

Soils stored in this manner will be redistributed to achieve final reclamation contours and soil depths.

The locations of these in-place topsoil storage areas are not delineated. Construction plans for future topsoil storage areas are detailed in Chapter 5 (Engineering).

R645-301-232. *Topsoil and Subsoil Removal*

R645-301-232.100. *All topsoil will be removed as a separate layer from the area to be disturbed, and segregated.*

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R645-301-232.200. Where the topsoil is of insufficient quantity or poor quality for sustaining vegetation;

No further surface disturbance is anticipated at the Banning Loadout. Should additional surface disturbance be required, Soldier Creek Coal Company will submit the appropriate application for permit change and will remove topsoil and subsoil as necessary in accordance with R645-301-232.100 through R645-301-232.700.

R645-301-232.300. If topsoil is less than six inches thick, the operator may remove the topsoil and the unconsolidated materials immediately below the topsoil and treat the mixture as topsoil.

R645-301-232.400. The Division may not require the removal of topsoil for minor disturbances which:

R645-301-232.410. Occur at the site of small structures, such as power poles, signs, or fence lines; or

R645-301-232.420. Will not destroy the existing vegetation and will not cause erosion.

R645-301-232.500. Subsoil segregation.

R645-301-232.600. Timing.

R645-301-232.700. Topsoil and subsoil removal under adverse conditions. An exception to the requirements of R645-301-232 to remove topsoil or subsoils in a separate layer from an area to be disturbed by surface operations may be granted by the Division where the operator can demonstrate;

R645-301-232.710. The removal of soils in a separate layer from the area by the use of conventional machines would be unsafe or impractical because of the slope or other condition of the terrain or because of the rockiness or limited depth of the soils; and

R645-301-232.720. That the requirements of R645-301-233 have been or will be fulfilled with regard to the use of substitute soil materials unless no available substitute material can be made suitable for achieving the revegetation standards of R645-301-356, in which event the operator will, as a condition of the permit, be required to import soil material of the quality and quantity necessary to achieve such revegetation standards.

Not applicable at this time. If future disturbance is implemented, all of the above will then be addressed.

R645-301-233. *Topsoil Substitutes and Supplements.*

R645-301-233.100. Through R645-301-233.400 Selected overburden materials may be substituted for, or used as a supplement to topsoil if the operator demonstrates to the Division that the resulting soil medium is equal to, or more suitable for sustaining vegetation on nonprime farmland areas than the existing topsoil, has a greater productive capacity than that which existed prior to mining for prime farmland reconstruction, and results in a soil medium that is the best available in the permit area to support revegetation.

The current approved reclamation plan for the Banning Loadout facility calls for the topsoil, some of which has been compacted and some of which has been graded throughout the site, to be ripped to a depth of 18 inches. ~~The surface will then be roughened by pocking and gouging to retain moisture, trap seeds and protect the soil surface from wind erosion. and subsequently disced until the average soil clods on the surface are less than one inch in size.~~ Some additional topsoil supplements are anticipated to be required, as set out by R645-301-231.200.

In the event that topsoil substitutes are found to be necessary, the Soldier Creek Coal Company will submit the appropriate application for permit change, and will conduct analyses of the thickness of soil horizons, total depth, texture, percent coarse fragments, pH, and areal extent of the different kinds of soils, and will submit the results of physical and chemical analyses to the Division to demonstrate to the Division that the resulting soil medium is equal to or more suitable for sustaining revegetation than the available topsoil, as required by R645-301-233.

All analyses, field-site trials, or greenhouse tests required by the Division will be certified by an approved laboratory in accordance with R645-301-233.300.

The permittee transported approximately 717 cubic yards of sediment from the Dugout Canyon Mine sediment pond to the Banning Loadout in August 2001. The material is stored in the equipment storage area (233 cu yds) and within the disturbed area of ASCA Area #2 (484 cu yds) (Exhibit 5-2). The vegetative test plot within this ASCA area was removed from this permit by amendment C/007/034-AM01B in June 2001. Prior to sediment

placement, all coal was removed from the ground surface. A small berm was built in the area where the pond sediment is stored for protection of the material. Exhibit 5-2 was updated to depict the dimensions and features of the sediment storage sites.

A sample of the material stored in the Dugout Canyon Mine sedimentation pond was obtained in March, 2001 and analyzed for the parameters listed in Table 2 of the Division's "Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining" (Leatherwood, 1988). Analysis results indicated the sediment from the pond would be acceptable for use as growth media. The results of the analysis are included in Appendix 2-2 of this permit. An additional composite sample of the sediment was obtained and analyzed in accordance with the above referenced guidelines after placement at the loadout to affirm the material is suitable for use as growth media. The results of the composite sample analysis are included in Appendix 2-2 of this permit. Analysis results indicated the sediment rated fair to good in all of the parameters listed in Table 2 (referenced above) and had a TOC of 7.4%. The permittee will utilize these sediment materials during final reclamation ~~as top dressing over the sodic soils found in the vicinity of test pits TP-2 and TP-3. of the loadout as growth media.~~

The sediment is stored in piles no greater than 2 feet thick. Additionally, the surface of the stock pile shall be roughened by deep gouging and seeded with the reclamation seed mix presented in Table 3-3 of Chapter 3 of this permit.

In the future, the permittee will not bring any additional sedimentation pond material to the loadout.

R645-301.234 Topsoil Storage

R645-301-234.100 Through R645-301-234.320

The Banning site was constructed pre-law and as such no original topsoil was stockpiled.

Maps showing the location of soil resources are Exhibits 3-1 and 5-2. Any further stockpiling or other distribution of topsoils will be in accordance with R645-301-234.100 through R645-301-320.

R645-301-240. Reclamation Plan

R645-301-241. General Requirements

Each permit application will include plans for redistribution of soils, use of soil nutrients and amendments and stabilization of soils.

The first step in the reclamation plan is removal of loose coal material. This will begin a year prior to the closure of the operation. The operator will start to scrape the outlying areas removing as much coal as possible and will continue inward toward the area above the vibrating feeders. The coal will be loaded out and the surface will be left relatively free of debris. The soil will then be ripped to a depth of 18 inches ~~and subsequently disced~~ to eliminate the deleterious effects of compaction. The resulting mixture of coal to soil will not exceed 50% coal. The tillage will continue until the average soil clods on the surface are less than one inch in size.

Soils previously used in grading to achieve desired elevations for specific needs and/or structure requirements, along with soils stored as noted in R645-301-231.400 and detailed in Chapter 5, will be redistributed to achieve final reclamation contours (Exhibit 5-6).

All areas affected by the loadout facilities within the permit area, except the designated portion of the haulage

road, will be returned to a final surface configuration that closely resembles premining conditions. This configuration will conform to the drainage pattern of the surrounding terrain. The final contours will be achieved by backfilling and grading existing soils and any future stored soil. All minor amounts of coal and debris left on site will be covered with soil during the grading. Any rills or gullies deeper than 9 inches will be filled, graded or otherwise stabilized and the affected area will be reseeded.

The final grading and shaping of the affected areas will produce as many depressions or moisture retention surfaces as possible with slopes of a moderate grade. All grading will be completed in a controlled manner to suppress or eliminate erosion and sedimentation problems. Grading will take place along the contour as long as safety consideration and areal conditions permit. Graded surfaces will be left in shape and will be ripped to produce the proper seedbed conditions. Smooth compacted surfaces will be avoided throughout the process.

Material will be taken first from the truck ramp and used to build up the higher relief areas. Following this, the central drainage channel will be roughed in and the soil distributed to the higher relief areas. Next, the drainage channels and associated road will be regraded to final contours. The road will be built to closely approximate the need of right-of-way specifications. Last, the area will be graded to final contours and inspected and certified by the engineer-in-charge.

The soil structure for the Ravola soil series is in place within the Banning Loadout permit area. Therefore, no

substitute topsoil is required or recommended. Remedial measures will be required to rehabilitate the insitu soil. At present the data indicate that 40 pounds per acre of sulfur coated urea (45-0-0) will need to be added as a nutrient. However, immediately Prior to reclaiming the area a soil test will be conducted to determine the current requirements for soil nutrients and amendments.

Soil stabilization will be accomplished through contouring and revegetation.

~~The final discing will be done with the contour to help reduce the potential for erosion.~~

Revegetation will be as described in the revegetation reclamation plan in Chapter 5.

R645-301-242. Soil Redistribution

R645-301-242.100. Topsoil materials removed under R645-301-232.100, R645-301-232.200, and R645-301-232.300 and stored under R645-301-234 will be redistributed in a manner that:

R645-301-242.110. Achieves an approximately uniform, stable thickness consistent with the approved postmining land use, contours, and surface-waters drainage systems;

R645-301-242.120. Prevents excess compaction of the materials; and

R645-301-242.130. Protects the materials from wind and water erosion before and after seeding and planting.

Any future topsoil materials removed under R645-301-232.100, R645-301-232.200, and R645-301-232.300 and stored under R645-301-234 will be redistributed as indicated in R645-301-241, and in a manner consistent with R645-301-242.100 through R645-301-242.130.

This will incorporate 1500 pounds of wood fiber with 60 pounds of tac per acre oversprayed on an interim seed mix. The tac and mulch will minimize soil and water erosion until intermediate vegetation becomes established. An earthen

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CHAPTER 5

LIST OF EXHIBITS

EXHIBIT	5-1	PERMIT AREA MAP
EXHIBIT	5-2	BANNING LOADOUT - SURFACE FACILITIES
EXHIBIT	5-3	CROSS SECTIONS - BANNING LOADOUT
EXHIBIT	5-4	SURFACE OWNERSHIP
EXHIBIT	5-5	SUBSURFACE OWNERSHIP
EXHIBIT	5-6	FINAL CONTOUR MAP
EXHIBIT	5-7	TRANSPORTATION FACILITIES MAP - ROAD DESIGN DETAILS

LIST OF APPENDICES

APPENDIX	5-1	SURFACE FACILITIES
APPENDIX	5-2	SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN
APPENDIX	5-3	CULVERT SIZING CALCULATIONS
APPENDIX	5-4	DISTURBED AREA DESCRIPTION

R03/28/95

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N/A This is a surface loadout facility only. There are no surface or underground mines at this site.

R645-301-520 Operation Plan

R645-301-521 General. *The applicant will include a plan, with maps, cross sections, narrative, descriptions, and calculations indicating how the relevant requirements are met. The permit application will describe and identify the lands subject to coal mining and reclamation operations over the estimated life of the operations and the size, sequence, and timing of the subareas for which it is anticipated that individual permits for mining will be sought.*

Banning Loadout began operations in 1976 when the Applicant received permission from the BLM to upgrade the existing road and to receive, stockpile and load coal at the site. The total area of surface disturbance at the site is approximately ~~27.97~~ 26.3 acres. This area includes the loadout facilities (~~23.27~~ 21.6 acres) and the haulage road (4.7 acres) within sections 15 and 16, T 15S, R12E (Exhibit 5-1). The total permit area is approximately 36.0 acres and is also illustrated on Exhibit 5-1. Surface disturbance area will be marked by perimeter markers, red reflectors attached to fence posts and/or steel pins securely set into the ground. Identification signs will be placed at access points from public

The operation at Banning Loadout is run by **Soldier Canyon Mine**. Savage Coal Service Corporation (Coal Service) under an agreement with the Applicant. Coal Service is responsible for the transportation of the coal to the site and for the complete operation of the loadout. Exhibit 5-2 details the surface facilities at Banning Loadout. Coal is shipped from the loadout by rail cars, using a spur adjacent to the Railroad Company's main line track, and by trucks.

Bonding for the facilities is described in Section R645-301-800 (Chapter 8) and plans and associated costs are given in Section R645-301-540 of this Chapter. The permit area and adjacent area are in the Price River drainage system which is not within the boundaries of any Wild or Scenic Rivers System. Also, the permit area and adjacent area are not within or adjacent to the boundaries of any public park, NRHP site, cemetery, burial ground or units of the National System of Trails.

The permit area is shown on Exhibit 5-1. It is not anticipated that this area will require enlargement during the life of the operation.

Materials Handling

R645-301-521.133.2 Relocating a Public Road

N/A There are no plans to relocate any public road in connection with this operation.

R645-301-521.140 Mine Maps and Permit Area Maps

These maps and/or cross-section drawings will clearly indicate:

The permit area is shown on Exhibit 5-1. Surface Facilities are shown on Exhibit 5-2.

R645-301-521.141 The boundaries of all areas proposed to be affected over the estimated total life of the coal mining and reclamation operations, with a description of size, sequence and timing of the mining of subareas for which it is anticipated that additional permits will be sought; the coal mining and reclamation operations to be conducted, the lands to be affected throughout the operation, and any change in a facility or feature to be caused by the proposed operations;

The boundaries of all areas proposed to be affected over the life of the operation are shown on Exhibits 5-1 and 5-2. There are presently no plans to enlarge or otherwise modify the disturbed area or affected areas at the site over the life of the operation. A legal description of the disturbed area is provided in Appendix 5-4.

R645-301-521.142 For the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES, the underground workings and the location and extent of areas in which planned-subsidence mining methods will be used and which includes all areas where the measures will be taken to prevent, control, or minimize subsidence and subsidence-related damage (refer to R645-301-525); and

N/A This is a surface loadout facility. There are no underground mines here.

R645-301-521.143 The proposed disposal sites for placing underground mine development waste and excess spoil generated at surface areas affected by surface operations and facilities for the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES and the proposed disposal site and design of the spoil disposal structures for purposes of SURFACE COAL MINING AND RECLAMATION ACTIVITIES according to R645-301-211, R645-301-212, R645-301-412.300, R645-301-512.210, R645-301-512.220, R645-301-514.100, R645-301-528.310, R645-301-535.100 through R645-301-535.130, R645-301-535.300 through R645-301-535.500, R645-301-536.300, R645-301-542.720, R645-301-553.240, R645-301-745.100, R645-301-745.300, and R645-301-745.400.

N/A There are no plans to dispose of underground development waste or excess spoil at this site.

R645-301-521.150 Land Surface Configuration Maps

These maps will clearly indicate sufficient slope measurements or surface contours to adequately represent the existing land surface configuration of the proposed permit area for the purposes of SURFACE COAL MINING AND RECLAMATION ACTIVITIES and the area affected by surface operations and facilities for the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES measured and recorded according to the following:

deposition. The underground water tank will then be removed along with the diesel storage tank. Also, during this step the escape tunnel, fan, electrical cables, underground piping and the water well will be demolished. The material from this demolition will be disposed in a manner similar to all other structures.

The haulage road, from the facilities entrance to the truck dump and back, will be the final item removed from the site during this stage of the reclamation process. The asphalt road will be ripped into small pieces and hauled to the reclaim tunnel area for deposition. The truck dump will be demolished and disposed of off site. Following this process, a general site cleanup will occur with any excess, non-metal, debris to be disposed of in the reclaim tunnel area.

All costs associated with the above steps are ~~listed in Table 5-3~~ provided in Appendix 8-1. The drainage controls for the site will remain intact during this process to control any potential runoff. Signs, markers and the fence lines will remain during this period of the reclamation process. No underground opening will be left nor will there be any use of coal processing waste for reclamation of the site. The haulage road from U.S. Highway 6-50 to the facilities area will remain following final reclamation and bond release, but the fence line will be removed.

R645-301-541.400 Each application will include a plan for the reclamation of the lands within the proposed permit area which shows how the applicant will comply with R645-301, and the environmental protection performance standards of the State Program.

The Banning Loadout will be abandoned and permanently closed when the Applicant has no further use of the area. Final reclamation will begin with the abandonment and closure. Closure will be timed so that revegetation can take place in the early fall of the same year. All surface structures will be removed and disposed of, except the road belonging to the BLM, at the conclusion of the operation.

Table 5-2 is a detailed timetable for the completion of each major reclamation step. ~~Table 5-3~~ Appendix 8-1 presents bond calculations for the disturbed areas, which include a breakdown of labor, equipment and material costs. No equipment salvage values were taken into consideration for this bond calculation.

The following sections will further describe each of the various reclamation activities.

R645-301-542 Narratives, Maps and Plans. The reclamation plan for the proposed permit area will include:

garbage and scrap which can be taken to a landfill will be stored in dumpsters and hauled to the Carbon County Landfill.

The only material expected to be buried on site is the ripped asphalt surface from the haul road. As indicated, this will be placed in the reclaim tunnel area and covered with a minimum of 4' of non-acid, non-toxic material.

R645-301-542.741 Noncoal mine wastes including, but not limited to grease, lubricants, paints, flammable liquids, garbage, abandoned mining machinery, lumber and other combustible materials generated during mining activities will be placed and stored in a controlled manner in a designated portion of the permit area. Placement and storage will ensure that fires are prevented, and that the area remains stable and suitable for reclamation and revegetation compatible with the natural surroundings.

Addressed under R645-301-542.740

R645-301-542.742 Final disposal of noncoal mine wastes will be in a designated disposal site in the permit area or a state approved solid waste disposal area. Wastes will be routinely compacted and covered to prevent combustion and wind-borne waste. When the disposal is completed, a minimum of two feet of suitable cover will be placed over the site, slopes stabilized, and revegetation accomplished in accordance with R645-301-244.200 and R645-301-353 through R645-301-357, inclusive. Operation of the disposal site will be conducted in accordance with all local, Utah, and federal requirements.

Addressed under R645-301-542.740

R645-301-542-800 The reclamation plan for the proposed coal mining and reclamation operations will also include a detailed estimate of reclamation costs as described in R645-301-830.100 through R645-301-830.300.

~~Refer to Appendix 8-1 for a detailed estimate of reclamation costs is shown on Table 5-3 of this chapter.~~

R645-301-550 Reclamation Design Criteria and Plans

Each permit application will include site specific plans that incorporate the following design criteria for reclamation activities.

R645-301-551 Casing and Sealing of Underground Openings. When no longer needed for monitoring or other use approved by the Division upon a finding of no adverse environmental or health and safety effects, each shaft, drift, adit, tunnel, or other opening to the surface from underground will be capped, sealed and backfilled, or otherwise properly managed, as required by the Division and consistent with MSHA, 30 CFR 75.1771. Permanent closure measures will be designed to prevent access to the mine workings by people, livestock, fish and wildlife, machinery and to keep acid or other toxic drainage from entering ground or surface waters.

N/A There are no underground openings at this site.

TABLE 5-3

Refer to Appendix 8-1 for bonding estimates associated with reclamation of the Banning Loadout.

APPENDIX 5-4

DISTURBED AREA DESCRIPTION

Banning Loadout
Disturbed Area Legal Description
T.15S., R.12E., SLB&M, Utah (Approximately 26.3 acres)

- Section 15: Portion of the NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$
 Portion of the S $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$
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December 2004 (DS)

APPENDIX 8-1

BANNING LOADOUT
RECLAMATION BOND
(DECEMBER 2004)

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$77,447.00
Subtotal Backfilling and Grading	\$47,537.00
Subtotal Revegetation	\$123,631.00
Direct Costs	\$248,615.00

Indirect Costs

Mob/Demob	\$24,862.00	10.0%
Contingency	\$12,431.00	5.0%
Engineering Redesign	\$6,215.00	2.5%
Main Office Expense	\$16,906.00	6.8%
Project Mainagement Fee	\$6,215.00	2.5%
Subtotal Indirect Costs	\$66,629.00	26.8%

Total Cost \$315,244.00

Escalation factor 0.0259
Number of years 3
Escalation \$25,134.00

Reclamation Cost Escalated \$340,378.00

Bond Amount (rounded to nearest \$1,000) \$340,000.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor Structure 01																			
	Structure's Demolition Cost	Steel Bld. Lame	02220 110 0012	0.25 /CF													0.1	6075 CF		15019
	Structure's Vol. Demolished																	6008 CF		
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight											488	16							
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	0190 200 5300	435.86 /day																
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	Trmv	\$40.30 /HR																
	Disposal Cost Steel																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
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	Disposal Costs																			
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	Disposal Costs																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			

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
	Multi Plate Arches 02																			
	Structure's Demolition Cost	Steel Bld. Large	02220 100 0012	0.25 /CF	CF													39150 CF	CF	9786
	Structure's Vol. Demolished																	3915 CF	CF	
	Rubber's Weight (excludes steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight											488								
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			

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
	Tanks, Bins, Etc. 03																			
	Structure's Demolition Cost	Steel Bld. Large	02220.100.0012	0.25 /CF														8910 CF		2228
	Structure's Vol. Demolished																	0.1	891 CF	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Permitage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Permitage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590.200.5300	408.01 /day																
	Transportation Cost Steel Truck Drive	Truck Driver, Heavy	TfM	\$38.15 /HR																
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Costs																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			

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	
	Building 04																				
	Structure's Demolition Cost	Steel Bld. Lrgly	02220.110.0012	0.25 /CF	/CF												0.35	4590 CF		1148	
	Structure's Vol. Demolished																	60 CY			
	Rubber's Weight (excludes steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	City Services	City Service Price	4 /CY															60 CY		240
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				

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	
	Fence 05																				
	Structure's Demolition Cost	Chain link remove 8'-10"	02220 220 1700	2.84	L.F	3900										FT		3900	FT	11076	
	Structure's Vol. Demolished																				
	Rubber's Weight (excludes steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				11076
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				

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	
	Concrete 08																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	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 Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.05 /CY	CY						290										2625
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.36 /CY	CY																519
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. tri	02315 490 0320	3.39 /CY	CY																1278
	Disposal Costs	On site disposal	02220 240 5550	7.25 /CY	CY																2733
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Transportation Cost																				
	Loading Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				

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	
	Asphalt 07																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (excludes steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Asphalt Demolition																				
	Demolition Cost	Concrete demolition	Concrete/Demo 1	9.05 /CY							963					CY			963	CY	8715
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.38 /CY																	
	Transportation Cost																				
	Disposal Costs	City Services	City Service Price	4 /CY																	
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Structure																				
	Total																				1528

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
	Banning Loadout																			
	Packing (340 CY/AC)	Excavation Bulk Bank 2 CY (322BL)	M02315-000260	1.73 /CY																
	Seeding	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01 /MSF																
	Seeding Material	Seed	Burnt07341	504.22 \$/AC																
	Hydromulch	Hyd 1" material only 0291205000250	Reveg001	48.95 /MSF																
	Fertilizer	Fertilizer Hydro Spread	M023553000180	3.66 /MSF																
	Seedlings (300 per AC)	Bare root seedlings 6 to 10 inch heavy soil	M0291203500711	1.21 /EA																
	Subtotal																			
	Reseeding																			
	25% reseedling rate																			
	Subtotal																			
	Total																			

Banning Loadout
C/007/034

CHAPTER 4

Appendix 4-2
Appendix 4-3
Appendix 4-4

Moved to Confidential Binder - December 2004

Per Letter December 8, 2004, Mark Mesch, Acting Associate Director, Mining
Utah Division of Oil, Gas and Mining



State of Utah
Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

MARY ANN WRIGHT
Acting Division Director

OLENE S. WALKER
Governor
GAYLE F. McKEACHNIE
Lieutenant Governor

December 8, 2004

DEC 13 2004

Rick Olsen, General Manager
Canyon Fuel Company, LLC
P.O. Box 1029
Wellington, Utah 84542

Re: Confidential and Protected Information in MRP, Outgoing File

Dear Mr. Olsen:

The requirements for Confidentiality in the Utah Coal Program are outlined in R645-301-124.300. Confidential information is limited to:

- 124.310. Information that pertains only to the analysis of the chemical and physical properties of the coal to be mined, except information on components of such coal which are potentially toxic in the environment.
- 124.320. Information required under section 40-10-10 of the Act that is authorized by that section to be held confidential and is not on public file pursuant to Utah law and that the applicant has request in writing to be held confidential: and
- 124.330. Information on the nature and location of archeological resources on public land and Indian land as required under the Archeological Resources Protection Act of 1979 (P.L. 96-95, 93 Stat. 721, 16 U.S. C. 470).

Additionally, according to the Government Records Access Management Act (GRAMA), the location of "historic, cultural or biological resources" must be "protected". The locations of raptors and threatened and endangered species must be "protected". Personal information is identified as a "private record" according to GRAMA (i.e. ownership information that contains social security numbers).

Therefore, we are requesting that confidential, protected and private information as identified above be removed from the currently approved MRP. A page clearly identifying what information was removed would be inserted into the MRP noting that the archeological information, for example, is in the Confidential MRP for that mine.

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Page 2
Confidential Information in MRP
December 8, 2004

All of the confidential, protected and private information should be organized in the "Confidential" MRP volume (binder) by pages where it would be found in the approved MRP.

Please handle this administrative action by February 1, 2005. If you have any questions, please call Pamela Grubaugh-Littig (801) 538-5268 or Wayne Hedberg (801) 538-5286.

Sincerely,

Mark Mesch
Acting Associate Director, Mining