

Requirements for Bond Release

I. Administrative Requirements

- A. A notarized signature of a responsible official is attached
- B. A copy of the notification letter mailed out to all parties that have a valid interest in the release is attached.
- C. A copy of the draft public notice is attached.
- D. There are no outstanding permit conditions that have not been satisfied.

II. Technical Requirements

A. Bond Release Request

- 1. A legal description of the permit area can be found in Appendix 1-1 of the approved MRP
- 2. This can be found on the current approved maps of the MRP. They are specifically located on Plates 5-4, 5-5, 5-7, and 5-9.
- 3. Not Applicable
- 4. A description of the work and dates associated with specific parts can be found on pages 2-37 to 2-43 of the approved MRP
- 5. This is located in Chapter 1, 2, and 4 of the approved MRP.
- 6. The work was completed in the Fall of 2000.
- 7. Sediment Ponds 6 and 7 are treating run-off from the area and will be removed after Phase III Bond Release
- 8. This is found in Chapter 8 of the approved MRP
- 9. This is found in Chapter 8 of the approved MRP

B. Phase I Bond Release

This information is all currently included in the approved MRP.

- Confidential
- Shelf
- Expandable

Refer to Record No 0001 Date 01/10/2008
in C/0070011, 2008, Incoming
For additional information

Hiawatha Area Reclamation

There are a total of 222.87 disturbed area acres within the lower Hiawatha area, excluding the canyon roads. Unfortunately, due to the age of the facilities, there has been very little topsoil or fill material salvaged and stockpiled for reclamation from these areas. Table II-13 shows the acreage by area. Exhibit II-4A shows the locations of the areas. Some of the area has already been reclaimed since it is no longer needed.

The following is a summary of the status of areas which are currently under reclamation at this site as of Spring 1998:

Area	Total Acres	Reclaimed Acres	Topsoiled Acres	Remaining
Slurry Pond 4 / Refuse Pile 2	26.37	25.41	25.41	0.96
Affected Areas	9.55	-0-	-0-	9.55
Preparation Plant Area	23.87	5.58	5.58	-0-
Borrow Area "F"	9.12	9.12	9.12	-0-
Slurry Pond 5 Main Cell	40.39	22.73 40.39	22.73 40.39	17.66 -0-
Borrow Area "A"	16.87	0 15.42	0 15.42	16.87 1.45
Total	99.87	62.84 95.92	62.84 95.92	35.49 29.62

A complete description of all of the disturbed areas, acreage and topsoil volumes is found in Table II-13.

Slurry Pond "4" has been completely reclaimed except for a small area on the northeast edge and two affected areas totaling 7.64 acres (included in the 9.55 acres shown above). The area on the northeast corner (approx. 1 acre) will require recontouring and topsoiling. The topsoil pile East of Slurry Pond No. 4 will be used to reclaim this area. An additional 577 yards of substitute material will be needed to complete Pond 4, which will come from Borrow Area "A". The affected areas will be reclaimed by vacuuming coal fines and/or topsoiling the areas. Areas being topsoiled will be ripped to a depth of 18" to 24" before topsoil is placed.

The main cell of slurry pond 5 is ~~currently being~~ topsoiled. ~~It is anticipated that the reclamation will~~ ~~was~~ be completed in 1999. An affected area 1.91 acres in size exists West of Slurry Pond "5". Portions of this area may require additional topsoil, which will come from Borrow Area "A". ~~Following topsoiling activities in 1998, Borrow Area "A" will be surveyed for remaining volumes.~~ Any areas in Borrow Area "A" which have reached the maximum depth of substitute topsoil ~~will be~~ ~~were~~ ripped and seeded with the seed mix No. 1 (Table III-6). The remaining areas will be seeded with an interim seed mix as described in R645-301-331.

Non-Refuse Areas

The majority of the preparation plant area has been reclaimed at this time. The remainder of the preparation plant area and affected non-refuse areas will be reclaimed utilizing in-site soils. Where greater than 50% coal (visual estimation) or other contaminants (oil, grease, etc.) are present on the surface, this material will be removed and taken to a Slurry Pond for final burial. The remaining in situ soils will then be graded and prepared for seeding according to the plan.

TABLE OF CONTENTS (Continued)

**CHAPTER VIII PERMIT APPLICATION REQUIREMENTS: BONDING AND
INSURANCE**

LIST OF APPENDICES

Appendix VIII-1	Area-Volume Balance Sheets
Appendix VIII-2	Bonding Certificates
Appendix VIII-3	Insurance Certificate
Appendix VIII-4	Revised Bond Amount, Stipulations and Calculations
<u>Appendix VIII-5</u>	<u>2008 Bond Release</u>

Appendix VIII-5

2008 Bond Release

Hiawatha Coal Company

P.O. Box 1202
Huntington, UT 84528

(435) 637-1778
FAX (435) 637-1378

December 19, 2007

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

Re: Slurry Pond 4 and 5 Phase 1 Bond Release, Hiawatha Complex, C/007/011.

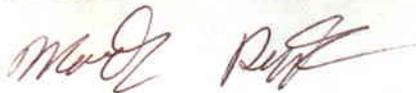
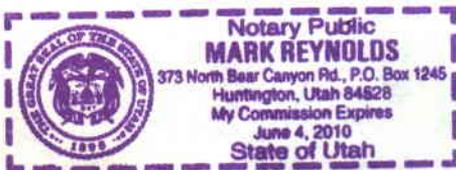
The Information contained in the request is true and correct to the best of my knowledge; and all applicable reclamation activities have been accomplished in accordance with the requirements of the Surface Mining Control and Reclamation Act., the State of Utah R645-Coal Mining Rules, and the approved Hiawatha Mining and Reclamation Plan.

If you have any questions, please call me at (435) 637-1778.

Thank You,



Elliott Finley
Hiawatha President



subscribed and sworn before me this 19th day of December, 2007

Public Notice

Application for Phase I Bond Release for Refuse Pile 2, Slurry Pond 4 and Slurry Pond 5 Main Cell
Hiawatha Coal Company
Hiawatha Mine Complex
Permit C/007/011
Carbon County, Utah

Hiawatha Coal Company, P.O. Box 1202, Huntington, UT 84528, has completed Phase I of the approved reclamation plan for approximately 95.9 acres of land related to Refuse Pile 2, and Slurry Ponds 4 and 5. The Phase I bond release application is based on completing the demolition, backfilling, grading, and drainage control requirements in accordance with the approved reclamation plan. The reclamation work applicable to this bond release was completed in the fall of 2000.

In accordance with the requirements of R645-301-880, of the State of Utah R645-Coal Mining Rules, notice is hereby given to the general public and all affected land owners that Hiawatha Coal Company is applying for partial release of the performance bond posted for this operation.

The Letter of Credit posted for the Hiawatha Mine Complex is \$2,800,000. Hiawatha Coal company is seeking Phase I release of \$1,220,000 from the 2009 calculated bond amount for reclamation activities completed in and around the town of Hiawatha.

The Slurry Ponds, Refuse Pile, and demolished structures are located on the Hiawatha and Poison Spring Bench, Utah, U.S. Geological Survey 7.5 minute quadrangle maps. This reclamation land is located in and around the town of Hiawatha on the following described lands:

Township 15 South, Range 8 East, SLB&M, Utah

Section 19: Portions of the	NE1/4 NW1/4
Section 20: Portions of the	NW1/4 SW1/4
Section 26: Portions of the	SW1/4 SW1/4
Section 27: Portions of the	SE1/4 SW1/4
Section 29: Portions of the	NW1/2
Section 32: Portions of the	E1/2 NW1/4
	S1/2 NE1/4
Section 34: Portions of the	NE1/4 NE1/4
Section 35: Portions of the	W1/2 NW1/4

The Utah Division of Oil, Gas and Mining will now evaluate the proposal to determine whether it meets all the criteria of the Permanent Program Performance Standards according to the requirements of the Utah Coal Mining Rules.

Written comments, objections and requests for public hearing or informal conference on this proposal may be addressed to:

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

Closing dates for submission of such comments, objections, and requests for public hearing or informal conference on this proposal must be submitted by January ???, 2008

Published in the Sun Advocate - ?????

Hiawatha Coal Company

P.O. Box 1202
Huntington, UT 84528

(435) 637-1778
FAX (435) 637-1378

David O. Kingston
ANR Company Inc.
1657 W Indiana Ave.
Salt Lake City, Utah 84104

December 18, 2007

Re: Notification of Application for Phase I Bond Release for Slurry Pond 4, Slurry Pond 5, Refuse Pile 2, and other small areas, Hiawatha Complex, C/007/011.

Dear Mr. Kingston:

Hiawatha Coal Company, P.O. Box 1202, Huntington, UT 84528, has completed Phase I of the approved reclamation plan for approximately 95.9 acres of land related to Refuse Pile 2, and Slurry Ponds 4 & 5 located around the town of Hiawatha. Additionally the demolition of several mining related structures located throughout the mining site has been completed. The Phase I portion of the bond release application is based on completing the demolition, backfilling, grading, and drainage control requirements in accordance with the approved reclamation plan. The reclamation work applicable to this bond release application was completed in the fall of 2000.

In accordance with the requirements of R645-301-880, of the State of Utah R645-Coal Mining Rules, notice is hereby given to the general public and all affected land owners that Hiawatha Coal Company is applying for partial release of the performance bond posted for this operation.

The current bond amount for this site is \$4,800,000. Hiawatha Coal company is seeking Phase I release of \$1,220,000 for reclamation activities completed in and around the town of Hiawatha.

The Slurry Ponds, Refuse Pile, and demolished structures are located on the Hiawatha and Poison Spring Bench, Utah, U.S. Geological Survey 7.5 minute quadrangle maps. This reclamation land is located in and around the town of Hiawatha on the following described lands:

Township 15 South, Range 8 East, SLB&M, Utah

Section 19: Portions of the	NE1/4 NW1/4
Section 20: Portions of the	NW1/4 SW1/4
Section 26: Portions of the	SW1/4 SW1/4
Section 27: Portions of the	SE1/4 SW1/4
Section 29: Portions of the	NW1/2
Section 32: Portions of the	E1/2 NW1/4
	S1/2 NE1/4
Section 34: Portions of the	NE1/4 NE1/4
Section 35: Portions of the	W1/2 NW1/4

Comments concerning bond release from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah, and local government agencies or any interested parties should be mailed to Hiawatha Coal Company, Attention Mark Reynolds, P.O. Box 1202 Huntington, Utah 84528.

If you have any questions, please call me at (435) 687-5238.

Thank You,

A handwritten signature in black ink, appearing to read 'Mark Reynolds', with a stylized flourish extending to the right.

Mark Reynolds,
Environmental Coordinator

Mailed to :

**Mr. Dave Levanger
Carbon County Planning and Zoning**

Carbon County Commissioners

**Mr. Phil Palmer
Price River Water Improvements District**

**Mr Patrick Gubbins
Bureau of Land Management**

**Mr. David Kingston
ANR Company**

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$119,263.00
Subtotal Backfilling and Grading	\$616,174.80
Subtotal Revegetation	\$167,991.60
Direct Costs	\$903,429.40

Indirect Costs

Mob/Demob	\$90,343.00	10.0%
Contingency	\$45,171.00	5.0%
Engineering Redesign	\$22,586.00	2.5%
Main Office Expense	\$61,433.00	6.8%
Project Management Fee	\$22,586.00	2.5%
Subtotal Indirect Costs	\$242,119.00	26.8%

Total Cost	\$1,145,548.40
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Escalation factor		0.032
Number of years		2
Escalation	\$74,488.00	

Reclamation Cost Escalated	\$1,220,036.40
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Bond Amount (rounded to nearest \$1,000) 2009 Dollars	\$1,220,000.00
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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Truck 2 Operator Bld 03																			444
	Rock Plant 04																			1771
	Explosives Magazine Two 11																			1105
	Full Drive Bld 23																			1049
	Full Drive Bld 25																			1000
	Full Drive Bld 29																			64185
	Stacking Conveyor 30																			30268
	Gallery 32																			0
	Screen Crusher Silo Facility 33																			5204
	Removed During Backfilling 34																			361
	Upper Retaining Wall 40																			2231
	Overland Conveyor Shed 46																			11625
	North Fork Pipeline 51																			
	Total																			119263

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	
	Triple 2 Operator Bld 03																				
	Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.3/CF	0.3/CF	11	11	9								FT	0.35	1089 CF	CF	327	
	Structure's Vol. Demolished																	14 CY			
	Rubble's Weight (excludes steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Sheet's Weight	City Services	City Service Price	4/CY	4/CY														14 CY		56
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				383
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	Concrete/Demo 1	9.85/CY	9.85/CY	11	11	0.5								FT	1.3	2 CY		20	
	Concrete's Vol. Demolished																	3 CY		5	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	1.5/CY													3 CY		11	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tw	31 23 17 0320	3.79/CY	3.79/CY													3 CY		11	
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CF	8.25/CF													3 CY		25	
	Subtotal																				61
	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																				444

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	
	Resin Plant 04																				
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28/CF	CF			16	16							FT		3217	CF	901	
	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																				
	Street's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				901
	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	9.82/CY	CY	28	40	0.5								FT	1.3	21	CY	206	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	CY															41	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th	31 23 17 0320	3.79/CY	CY															102	
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CF	CF															223	
	Subtotal																				572
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82/CY	CY	190	1.5	1								FT	1.3	11	CY	108	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	CY															21	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th	31 23 17 0320	3.79/CY	CY															53	
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CF	CF															116	
	Subtotal																				298
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82/CY	CY																
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	CY															21	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th	31 23 17 0320	3.79/CY	CY															53	
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CF	CF															116	
	Subtotal																				298
	Total																				1771

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	
	Explosives Magazine Two 11																				
	Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.3/CF	0.3/CF	14	14	14	6						2 FT		0.35	31.36/CF	941		
	Structure's Vol. Demolished																	41 CY			
	Rubble'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	4 /CY														41 CY	164	
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				1105
	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																				1105

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	
	Fan Drive BM 23																				
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28 /CF	CF	14.5	17	14								FT		3457	CF	966	
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Demolition Cost Non Steel Drive																				
	Demolition Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Demolition Cost Steel																				
	Subtotal																				966
	Equipment's Disposal Cost																				
	Demolition Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	Concrete Demo 1	9.82 /CY	CY	14.5	17	0.33								FT	1.3	3	CY	29	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5 /CY	CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. br	31 23 23 17 0320	3.79 /CY	CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25 /CF	CF																
	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																				1049

Demolition Costs

Hiawatha Mine C-0077011

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	
	Rail into Mine 29																				
	Structure's Demolition Cost	Rail Road Removal	Contractors	10000/Mi	10000/Mi	700										FT		0.1 MI		1000	
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				1000
	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																				1000

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	
	Stacking Conveyor 30	Steel Bld, Large	02 41 16 13 0012	0.28/CF	CF	7.5	175	9								FT		11813	CF	3308	
	Structure's Demolition Cost																				
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Structure's Height																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				3308
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82/CY	CY	23	23	112								FT	1.3	2184	CY	21545	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79/CY	CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CY	CY																
	Subtotal																				60161
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82/CY	CY	25	28	1								FT	1.3	26	CY	255	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5/CY	CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79/CY	CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25/CY	CY																
	Subtotal																				716
	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																				64195

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	
	Galley 32																				
	Structure's Demolition Cost	Concrete Bld. Lmpg	02 41 16 13 0050	0.4 /CF	0.4 /CF	27.5	100	12								FT	0.35	33000 CF		13200	
	Structure's Vol. Demolished																	428 CY			
	Rubble's Weight (excludes steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Stack's Weight	City Services	City Service Price	4 /CY	4 /CY																
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																			14812	
	Equipment's Disposal Cost																				
	Demantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	Concrete Demo1	9.82 /CY	9.82 /CY	12	126	10								FT	1.3	560 CY		5499	
	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																				30268

Demolition Costs

Harvestha Mine C007/011

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	
	Screen Crusher Site Facility 33																				
	Concrete Demolition	Concrete demolition	Concrete/Demo1	9.82/ICY	ICY	4	16	0.5								FT		1.3	1CY	10	
	Demolition Cost		31 23 16 42 1300	1.5/ICY																	
	Concrete's Vol. Demolished		31 23 16 42 1300	3.79/ICY																	
	Loading Cost	Front end loader 3 CY	02 41 16 17 4200	8.25/ICY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th																			
	Disposal Costs	On site disposal																			
	Subtotal																				24
	Concrete Demolition	Concrete demolition	Concrete/Demo1	9.82/ICY	ICY	8	12	0.5								FT		1.3	3CY	20	
	Demolition Cost		31 23 16 42 1300	1.5/ICY																	
	Concrete's Vol. Demolished		31 23 16 42 1300	3.79/ICY																	
	Loading Cost	Front end loader 3 CY	02 41 16 17 4200	8.25/ICY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th																			
	Disposal Costs	On site disposal																			
	Subtotal																				61
	Concrete Demolition	Concrete demolition	Concrete/Demo1	9.82/ICY	ICY	22	22	1								FT		1.3	18CY	177	
	Demolition Cost		31 23 16 42 1300	1.5/ICY																	
	Concrete's Vol. Demolished		31 23 16 42 1300	3.79/ICY																	
	Loading Cost	Front end loader 3 CY	02 41 16 17 4200	8.25/ICY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th																			
	Disposal Costs	On site disposal																			
	Subtotal																				488
	Concrete Demolition	Concrete demolition	Concrete/Demo1	9.82/ICY	ICY	4	8	0.5								FT		1.3	1CY	10	
	Demolition Cost		31 23 16 42 1300	1.5/ICY																	
	Concrete's Vol. Demolished		31 23 16 42 1300	3.79/ICY																	
	Loading Cost	Front end loader 3 CY	02 41 16 17 4200	8.25/ICY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th																			
	Disposal Costs	On site disposal																			
	Subtotal																				24
	Concrete Demolition	Concrete demolition	Concrete/Demo1	9.82/ICY	ICY	22	22	1								FT		1.3	18CY	177	
	Demolition Cost		31 23 16 42 1300	1.5/ICY																	
	Concrete's Vol. Demolished		31 23 16 42 1300	3.79/ICY																	
	Loading Cost	Front end loader 3 CY	02 41 16 17 4200	8.25/ICY																	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. th																			
	Disposal Costs	On site disposal																			
	Subtotal																				489
	Total																				489

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
	Removed During Backfilling 34																			
	Structure's Demolition Cost	Steel Bldg. Large	02 41 16 13 0012	0.28 /CF	CF						15687					FT	0.35	15687 CF		4392
	Structure's Vol. Demolished																	203 CY		
	Rubble'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	CY														203 CY	812
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			5204
	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																			5204

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
	Upper Retaining Wall 40																			
	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																			
	Drive's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Drive's Weight																			
	Truck's Capacity																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	Concrete/Demo1	9.82 /CY		38	1	10								FT	1.3	14	CY	137
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5 /CY																27
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. hwy	31 23 17 0320	3.79 /CY																68
	Disposal Costs	On site disposal	02 41 16 17 4200	8.25 /CY																149
	Subtotal																			381
	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																			381

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	
	North Fork Pipeline 51																				
	Structure's Demolition Cost	Pipe removal 12 inch	02 41 13 38 0480	7.75 FT	FT	1500												1500 FT		11625	
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				11625
	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																				11625

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Drs.	Units	Cost
Topsoil Prep Plant 011															
Topsoil Placement (Refuse Pile 2, Pond 4 and 5)															
Haul topsoil from borrow areas															
D&R Semi-LU EROPS (9-54) (2H2005)	19530	90.4	0.1	57.85	279.35	1	279	\$/HR					136	HR	37944
631G (9-51) (2nd2005)	20445	204.45	0.1	57.85	306.47	4	1226	\$/HR	143443	CY	1156	CY/HR	124.1	HR	152147
Spread topsoil to grade stakes (3 passes)															
14H EROPS (9-11)(2H2005)	8660	38.6	0.1	57.85	154.44	1	154	\$/HR	133	AC	6	AC/HR	22.2	HR	3419
14H EROPS (9-11)(2H2005)	8660	38.6	0.1	57.85	154.44	1	154	\$/HR	133	AC	6	AC/HR	22.2	HR	3419
14H EROPS (9-11)(2H2005)	8660	38.6	0.1	57.85	154.44	1	154	\$/HR	133	AC	6	AC/HR	22.2	HR	3419
Subtotal															200348

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Drs	Units	Cost
Support 013															
Refuse Pile 2 and Slurry Ponds 4 and 5															
5,000 gal H2O Truck Diesel (20-17) (2nd2005)	5170	55	0.1	45.65	138.46	1	138 \$/HR						599.6	HR	82745
Pickup Truck Crew 4x4 1 ton (20-17) (2nd2005)	1070	13.1	0.1	0	21.1	1	21 \$/HR						599.6	HR	12592
Foreman Average, Outside					62.25	1	62 \$/HR						599.6	HR	37175
Topsail Borrow Areas															
5,000 gal H2O Truck Diesel (20-17) (2nd2005)	5170	55	0.1	45.65	138.46	1	138 \$/HR						151.9	HR	20962
Pickup Truck Crew 4x4 1 ton (20-17) (2nd2005)	1070	13.1	0.1	0	21.1	1	21 \$/HR						151.9	HR	3190
Foreman Average, Outside					62.25	1	62 \$/HR						151.9	HR	9418
Subtotal															186082

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	
	North Fork Veg 003																				
	Scantly total area to be reclaimed	75 HP Dozer/wheel loaders	32 81 13 23 3100	4.3 MSF	AC					12.5								545 MSF		2344	
	Apply Fertilizer	Fertilizer Hydro Spread	32 81 80 13 0180	4.06 MSF	AC					12.5								545 MSF		2213	
	Drill Seeding	Tractor Spreader (equip. & labor) B-66 South and Middle Forks	Reveg004 HawathaVeg003	12.71 MSF 726 /AC	AC					12.5								545 MSF		6927	
	Mulch 2 tons per acre	Hay bale	Reveg007	166.1 /ton	AC					12.5								25 tons		4153	
	Subtotal																			15637	
	Reveg Assume 25% reseeding																			3809	
	Subtotal																			3109	
	Total																			19546	

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	
	Prep Plant Veg 004																				
	Scarify total area to be reclaimed	75 HP Dozer/wheelers	32 91 13 23 3100	4.3 MSF	MSF					67						AC		2919	MSF	12552	
	Apply Fertilizer	Fertilizer Hydro Spread	32 01 90 13 0180	4.06 MSF	MSF					67						AC		2919	MSF	11851	
	Disc harrow along contour	300 H.P. (D9) Eq. Op., Medium Equipment (Egmd)	01 54 33 20 4310	1140 \$/day 57.85/HR	day HR									32.5	32.5	HR HR		4.1 Day 32.5 HR		4637 1880	
	Drill Seeding	Tractor Spreader (equip. & labor) B-66 Ponds, Release Area	Reveg004 HiawathaVeg002	12.71 MSF 655/AC	MSF AC					67 67						AC AC		2919 67	MSF AC	31100 57265	
	Mulch 2 tons per acre	Hay bale	Reveg007	166.1 /ton	ton					67						AC		134	tons	22257	
	Hydraseed steep areas	Hydro Spreader (equip. & labor) B-81 Ponds, Release Area	Reveg005 HiawathaVeg002	20.85 MSF 655/AC	MSF AC					3 3						AC AC		137 3	MSF AC	2744 2565	
	Subtotal																			152911	
	Reveg Assume 25% reseeding																			36228	
	Subtotal																			36228	
	Total																			191139	

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	
	Topsail Borrow Area F and part of A																				
	Scantily total area to be reclaimed	75 HP Dozer/wheelers	32 91 13 23 3100	4.3 MSF	MSF					25.5						AC		1111 MSF		4777	
	Apply Fertilizer	Fertilizer Hydro Spread	32 91 90 13 0180	4.06/MSF	MSF					25.5						AC		1111 MSF		4511	
	Disc harrow along contour	300 H. P. (D9) Eq. Op. - Medium Equipment (Equip)	01 54 33 20 4310	1140 \$/day 57.8\$/HR	Day HR									6.7 8.7		HR HR				1295 503	
	Drill Seeding	Tractor Spreader (equip. & labor) B-66 Ponds, Netbar Area	Reveg004 HiwathaVeg002	12.71/MSF 89\$/AC	MSF AC					25.5 25.5						AC AC		1111 MSF 25.5 AC		14121 21803	
	Mulch 2 tons per acre	Hay bale	Reveg007	166.1/ton	ton					25.5						AC		51 tons		8471	
	Subtotal																			55441	
	Reveg Assume 25% reseedling																			13660	
	Subtotal																			13660	
	Total																			69301	