# STATE OF COLORADO

# DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106 COLORADO
DIVISION OF
RECLAMATION
MINING
—&—
SAFETY

August 1, 2013

Gary Wright New Smuggler Mine Company 715 W. Main Street, Suite 201 Aspen, CO 81611 John W. Hickenlooper Governor

Mike King Executive Director

Loretta Piñeda Director

RE: Smuggler Mine, Permit No. M-1995-097, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Wright:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). Therefore, pursuant to Section 34–32–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Tuesday, October 01, 2013. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$\frac{\$106,014.00}{0}\$. This is an increase of \$\frac{\$26,126.00}{0}\$ over the \$\frac{\$79,888.00}{0}\$ currently held by the Division. This estimate is based on conditions observed during the July 23, 2013 inspection.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office.

Sincerely,

Dustin Czapla

Environmental Protection Specialist Department of Natural Resources

Division of Reclamation, Mining and Safety

101 South 3<sup>rd</sup>, Suite 301 Grand Junction, CO 81501 Phone: (970) 243-6299

Fax: (970) 241-1516

Enc: Financial Warranty Cost Estimate

# **COST SUMMARY WORK**

Task description: Routine review of financial warranty costs

Site: Smuggler Mine Permit Action: 2013-08 Review Permit/Job#: M1995097

# **PROJECT IDENTIFICATION**

Task #: 000 State: Colorado Abbreviation: None

Date: 8/1/2013 County: Pitkin Filename: M097-000
User: DMC

Agency or organization name: DRMS

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Seal mine openings	MINESEAL	Size	20.00	
02a	Demo/dispose of structures and junk	DEMOLISH	1	40.00	\$16,408.00 \$43,929.78
03a	Rip compacted surfaces	RIPPER	î	3.87	\$536.00
04a	Import growth medium	TRUCK1	1	42.08	\$15,770.86
05a	Spread growth medium	DOZER	1	4.43	\$613.99
06a	Vegetate 2.1 acres	REVEGE	1	4.00	\$6,219.96
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.57	\$2,434.28
	\$85,912.87				

# **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

 Liability insurance:
 2.02%
 Total = \$1,735.44

 Performance bond:
 1.05%
 Total = \$902.09

 Performance bond:
 1.05%
 Total =
 \$902.09

 Job superintendent:
 58.48 hrs
 Total =
 \$3,824.85

Profit: 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00%

TOTAL O & P =  $\frac{$15,053.67}{$100,966.54}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

0.00

Total = 0.00

Total = 0.00

\$0.00

\$5,048.33

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$20,102.00

TOTAL BOND AMOUNT (direct + indirect) = \$106,014.87

# SAFEGUARDING UNDERGROUND OPENINGS

T	ask description:	Seal mine o	penings				
Site: _	Smuggler Mine		Permit Action:	2013-08 Review	Permit/J	ob#: _]	M1995097
PROJEC	CT IDENTIFICATIO	<u>N</u>					
Task #:	01A	State:	Colorado		Abbreviation:	None	
Date:	8/1/2013	County:	Pitkin		Filename:	M097	-01a
User	DMC				_		

# **UNIT COSTS**

Agency or organization name: DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Cap the Smuggler Shaft	6' x 9'	Shaft closure - concrete cap, poured-in-place (per sq. ft.)	54.00	SF	\$105.70	\$5,707.80
Install 4 locking portal gates	6' x 9'	Adit closure - grated door (per opening)	4.00	EA	\$2,675.05	\$10,700.20

Job Hours:	20.00	Total Cost:	\$16,408.00

# **DEMOLITION WORK**

Т	Task description:	Demo/disp	ose of structures	and junk		
Site:	Smuggler Mine		Permit Action:	2013-08 Review	Permit/Jo	ob#: M1995097
<u>PROJEC</u>	CT IDENTIFICATION					
Task #:	02A	State:	Colorado		Abbreviation:	None
Date:	8/1/2013	County:	Pitkin		Filename:	M097-02a

Agency or organization name: DRMS

# **UNIT COSTS**

User: DMC

# Location adjustment: 98.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Main level shop	40' x 40' x 10'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	16,000.00	CF	\$1.07	\$17,120.00
Main level storage building	(2) 12' x 16' x 12'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	4,608.00	CF	\$1.07	\$4,930.56
Storage building on main level mine waste	12' x 16' x 12'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	2,304.00	CF	\$1.07	\$2,465.28
No. 2 level structure	10' x 14' x 8'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	1,120.00	CF	\$1.07	\$1,198.40
Misc. salvageable equipment	370 c.y.	Loading and 5 mile haul, salvage allowed - Steel frame structures	340.00	CY	\$9.48	\$3,223.20
Misc. junk and debris to landfill	1000 c.y.	Loading and 2 mile haul, no salvage - Machine loading	1,000.00	CY	\$15.43	\$15,430.00
Haul above junk and debris 8 additional miles (10 miles total to landfill)	55 trips x 8 miles	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	444.00	MI	\$0.52	\$231.32

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$44,598.76	location):	\$43,929.78

# **BULLDOZER RIPPING WORK**

	Task description	n: Rip compact	ed surfaces			
Site:	Smuggler M	ine	Permit Action:	2013-08 Review	Permit/Job#	: M1995097
	PROJECT II	DENTIFICATION				
	Task #: 03	3A Sta	te: Colorado		Abbreviation:	None
	Date: 8	/1/2013 Coun	ty: Pitkin		Filename:	M097-03a
	User: D	MC				
	Agenc	y or organization name:	DRMS			
	HOURLY EQ	DUIPMENT COST				
	Basic	Machine: Cat D6T L0	<del>i</del> P		Horsepower:	200
	Ripper A	ttachment: 3-Shank Rip		-	•	per day
			***************************************	_		CRG)
	Cost Breakdown	n:				
				1	Utilization %	
		Ownership Cost/Hour:	\$35.	.09	NA	
		Operating Cost/Hour:			100	
	Rij	oper Operating Cost/Hour			100	
		Operator Cost/Hour			NA	
		Total Unit Cost/Hour:				
		Total Fleet Cost/Hour:	\$138	3.47		
	MATERIAL	<b>QUANTITIES</b>	Sele	cted estimating n	nethod: Area	
	Alternate Metho	ods:				
Seismic:	NA		Bank Volume:	NA	BCY	NA
Area:	2.10	acres	Rip Depth (ft):	2.00	Volume: 6,776	BCY or CC
		Source of estimated qu	antity: Approv	ed reclamation n	lan	
	HOURLY PR	_				
		ODUCTION				
	Seismic:	0	7.1.	27.		
		Seismic '	Velocity:	NA	feet/second	
	Area:					
		Average Rippin		1.64	mph	
		Average Rippin		6.58	degrees	
		Average Ripping		100.00	feet	
		Average Doze Average Maneuv		88.00	feet	
		Production per i		0.25	feet acres/hour	
	T10 111 0	_	init area.	0.034	acres/flour	
		Correction Factors				
	U	nadjusted Hourly Unit Pro	duction:	0.654	Acres/hr	
			Altitude:	8,075	feet	
			ude Adj:	1.00	(CAT HB)	
			ficiency:	0.83	(1 shift/day)	
		Net Co	rrection:	0.83	multiplier	
		Adjusted Hourly I	Jnit Production:	0.54	Acres/hr	
		Adjusted Hourly F		0.54	Acres/hr	
	JOB TIME A	ND COST				
	Fleet size:	1 Grader	r(s)	Total job time:	3.87	Hours
	Unit cost:			_		
	Omt cost:	\$255.191 Per act	C	Total job cost:	\$536.00	

# TRUCK/LOADER TEAM WORK

Smuggler Mine	Permi	it Action: 2013-08 Review	Permit/Job#:	M1995097
PROJECT IDENTIFIC	CATION			
Task #: 04A	State:	Colorado	Abbreviation:	None
Date: 8/1/2013	County:	Pitkin	Filename:	M097-04a
User: DMC				
Agency or organiz	zation name: DRM	15		
HOURLY EQUIPMEN	TT COST		Shift basis: 1 per day	
HOURLY EQUIPMEN	TT COST	Equipment Description	Shift basis: 1 per day	
	T COST  oader Team -Truck:	Equipment Description Generic 8-10 cy, 6x4	Shift basis: 1 per day	
			Shift basis: 1 per day	
Truck Lo	oader Team -Truck:	Generic 8-10 cy, 6x4	Shift basis: 1 per day	
Truck Lo	oader Team -Truck: -Loader:	Generic 8-10 cy, 6x4 CAT 972H	Shift basis: 1 per day	
Truck Lo	oader Team -Truck: -Loader: ipment -Load Area:	Generic 8-10 cy, 6x4 CAT 972H NA	Shift basis: 1 per day	

Cost Breakdown:	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$8.92	\$35.56	NA	NA	NA	NA
Operating cost/hour:	\$50.32	\$66.46	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$35.82	NA	NA	NA	NA
Unit Subtotals:	\$59.24	\$137.84	NA	NA	NA	NA
Number of Units:	4	1	0	0	0	0
Group Subtotals:	Work:	\$374.80	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$374.80

# **MATERIAL QUANTITIES**

Initial volume: 1,694 CCY Swell factor: 1.000

Loose volume: 1,694 LCY

Source of estimated volume: 2.1 ac. x 6"

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$6.00

Total Cost: \$0.00

# **HOURLY PRODUCTION**

#### **Truck Capacity:**

Truck Payload (weight) Basis:

Material weight: 1,600 Pounds/LCY
Description: Top Soil
Rated Payload: 27,280 Pounds

Rated Payload: 27,280 Pounds
Payload Capacity: 17.05 LCY

Truck	Red (	(volume)	Racie.
lluck	Dou	voiuille	i Dasis.

Struck Volume:	8.00	LCY
Heaped Volume:	10.00	_ LCY
Average Volume:	9.00	_ LCY
Adjusted Volume:	10.00	_ LCY

Final Truck Volume Based on Number of Loader Passes: LCY

#### Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: Bucket Fill Factor:

5.600 LCY (heaped) 0.975

Loose material - mixed moist aggregates (95-100%) 0.975

Adjusted Capacity: 5.460 LCY

#### Job Condition Corrections:

Site Altitude (ft.): 8075 feet

	Truck	Loader	Source
Altitude Adj:	0.970	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.805	0.830	

<b>Loading Tool</b>	<b>Cycle Time:</b>	
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Number of Loading Tool Passes Required to Fill Truck: 1

passes

# **Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating:

Selected Value within this Basic Rating: NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:

Maneuver:

NA

Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.525

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)

Net Cycle Time Adjustment: -0.060 minutes Adjusted Loader Cycle Time: 0.465 minutes Net Load Time per Truck: 0.100 minutes

# Truck Cycle Time:

Truck Exchange Time:

0.50 Minutes 0.100 Minutes

Adjusted for site altitude:

0.515

Minutes Minutes

Truck Load Time: Truck Maneuver and Dump Time:

0.80 Minutes Adjusted for site altitude: Adjusted for site altitude:

0.100 0.825

Minutes

Truck Travel (Haul & Return) Time:

Road Condition: Very hard, smooth, asphalt or concrete, no tire

penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	0.00	1.20	1.20	2895	12.860

Haul Time: 12.860 minutes

Re	turn	R	ou	te:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	0.00	1.20	1.20	2913	12.716

Return Time: 12.716 minutes
Total Truck Cycle Time: 27.016 minutes

Loading Tool unit

Production 532.28 LCY/Hour Adjusted for job efficiency: 441.79 LCY/Hour Truck Unit Production 12.13 LCY/Hour Adjusted for job efficiency: 10.06 LCY/Hour

Optimal No. of Trucks: 44 Truck(s) Selected Number of Trucks: 4 Truck(s)

Adjusted hourly truck team production: 40.26 LCY/Hour Adjusted single truck/loader team production: 40.26 LCY/Hour Adjusted multiple truck/loader team production: 40.26 LCY/Hour

# **JOB TIME AND COST**

Fleet size: 1 Team(s) Total job time: 42.08 Hours

Unit cost: \$9.310 /LCY Total job cost: \$15,770.86

Task #: 05A	9509
Date: 8/1/2013	
Basic Machine: Cat D6T LGP Horsepower: 200 Blade Type: Straight Attachment: NA Shift Basis: 1 per day Data Source: (CRG)  Cost Breakdown:  Ownership Cost/Hour: \$35.09 NA Operating Cost/Hour: \$65.97 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$37.41 NA  Total unit Cost/Hour: \$138.47  Total Fleet Cost/Hour: \$138.47  MATERIAL QUANTITIES  Initial Volume: 1,694 Swell factor: 1,694 LCY  Source of estimated volume: Source of estimated swell factor: Cat Handbook  HOURLY PRODUCTION  Average push distance: 50 feet Unadjusted hourly production: Loose stockpile 1.2  Average push gradient: 0 % Average push gradient: 0 % Average site altitude: 8,075 feet	
Basic Machine: Cat D6T LGP Horsepower: 200 Blade Type: Straight Attachment: NA Shift Basis: 1 per day Data Source: (CRG)  Cost Breakdown:  Ownership Cost/Hour: \$35.09 NA Operating Cost/Hour: \$65.97 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$37.41 NA  Total unit Cost/Hour: \$138.47  Total Fleet Cost/Hour: \$138.47  MATERIAL QUANTITIES  Initial Volume: 1,694 Swell factor: 1,694 LCY  Source of estimated volume: Division of Reclamation, Mining & Safety Cat Handbook  HOURLY PRODUCTION  Average push distance: 50 feet Unadjusted hourly production: Loose stockpile 1.2  Average push gradient: Average push gradient: O % Average push gradient: 0 % Average site altitude: 8,075 feet	
Horsepower: 200 Blade Type: Straight Attachment: NA Shift Basis: 1 per day Data Source: (CRG)  Cost Breakdown:  Ownership Cost/Hour: \$35.09	
Ownership Cost/Hour: \$35.09 NA Operating Cost/Hour: \$65.97 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$37.41 NA  Total unit Cost/Hour: \$138.47  Total Fleet Cost/Hour: \$138.47  MATERIAL QUANTITIES  Initial Volume: 1,694 Swell factor: 1.000 Loose volume: 1,694 LCY  Source of estimated volume: Source of estimated swell factor: Cat Handbook  HOURLY PRODUCTION  Average push distance: 50 feet Unadjusted hourly production: Loose stockpile 1.2  Average push gradient: 0 % Average site altitude: 8,075 feet	
Ripper op. Cost/Hour:  Operator Cost/Hour:  \$37.41  NA  Total unit Cost/Hour:  \$138.47  Total Fleet Cost/Hour:  \$138.47   MATERIAL QUANTITIES  Initial Volume: Loose volume:  1,694  Swell factor:  1,000  Loose volume:  1,694 LCY  Source of estimated volume: Source of estimated swell factor:  Division of Reclamation, Mining & Safety  Cat Handbook  HOURLY PRODUCTION  Average push distance: Unadjusted hourly production:  Materials consistency description:  Loose stockpile 1.2  Average push gradient: Average site altitude:  8,075 feet	
Operator Cost/Hour: \$37.41 NA  Total unit Cost/Hour: \$138.47  Total Fleet Cost/Hour: \$138.47   MATERIAL QUANTITIES  Initial Volume: 1,694 Swell factor: 1.000 Loose volume: 1,694 LCY  Source of estimated volume: Source of estimated well factor: Cat Handbook  HOURLY PRODUCTION  Average push distance: 50 feet Unadjusted hourly production: Loose stockpile 1.2  Average push gradient: 0 % Average site altitude: 8,075 feet	
Total Unit Cost/Hour: \$138.47  Total Fleet Cost/Hour: \$138.47   MATERIAL QUANTITIES  Initial Volume: 1,694 Swell factor: 1.000 Loose volume: 1,694 LCY  Source of estimated volume: Oivision of Reclamation, Mining & Safety Cat Handbook  HOURLY PRODUCTION  Average push distance: 50 feet Unadjusted hourly production: 444.6 LCY/hr  Materials consistency description: Loose stockpile 1.2  Average push gradient: 0 % Average site altitude: 8,075 feet	
Source of estimated volume: Source of estimated swell factor:  Division of Reclamation, Mining & Safety  Cat Handbook  HOURLY PRODUCTION  Average push distance: Unadjusted hourly production:  Materials consistency description:  Loose stockpile 1.2  Average push gradient: Average site altitude:  8,075 feet	
Average push distance: 50 feet Unadjusted hourly production: 444.6 LCY/hr  Materials consistency description: Loose stockpile 1.2  Average push gradient: 0 % Average site altitude: 8,075 feet	
Average push gradient: 0 % Average site altitude: 8,075 feet	
Average site altitude: 8,075 feet	
Material weight: 1,600 lbs/LCY	
Weight description: Top Soil	
Job Condition Correction Factor Source	
Operator Skill: 0.750 (AVG.) Material consistency: 1.200 (CAT HB)	

Material consistency:
Dozing method:

1.200 1.000

(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 382.04 LCY/hr
Adjusted fleet production: 382.04 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.362/LCY

Total job time: 4.43 Hours
Total job cost: \$613.99

# **REVEGETATION WORK**

Task description:

Vegetate 2.1 acres

Site: Smuggler Mine

Permit Action: 2013-08 Review

Permit/Job#: M1995097

# **PROJECT IDENTIFICATION**

8/1/2013

DMC

Task #:

06A

State:

Colorado Pitkin

Abbreviation:

None

Date: User: County:

Filename: M097-06a

Agency or organization name: DRMS

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre	
6-24-24, 10-20-10, 15-15-15	100.00	pound	\$0.26	\$26.40	
	Total Fertilizer Materials Cost/Acre				

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

# **TILLING**

Description		Cost /Acre
Chisel plowing {DMG}		\$88.58
Weed control spraying (MEANS 31 31 16.13 3100)		\$145.20
7	Total Tilling Cost/Acre	\$233.78

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alsike Clover	4.00	62.44	\$8.12
Indian Ricegrass - Native	9.00	29.13	\$60.66
Mountain Brome - Bromar	6.00	9.64	\$20.40
Sandberg Bluegrass - VNS	4.00	84.94	\$34.72
Hard Fescue - Durar	3.00	38.91	\$6.27
Sheep Fescue - Bighorn	4.00	62.44	\$12.24
Western Wheatgrass - Native	8.00	20.20	\$24.32
Needlegrass, Letterman's	7.00	30.53	\$700.84
Totals Seed Mix	45.00	338.25	\$867.57

**Application** 

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28

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# MULCHING and MISCELLANEOUS

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
		Total Mulch	Materials Cost/Acre	\$530.00

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Bitterbrush, Antelope	50	Tubling, 10 cu. in. container {(MEANS)	\$1.77	\$0.00	\$88.50
Buffaloberry, Silver	50	Tubling, 10 cu. in. container {(MEANS)	\$1.45	\$0.00	\$72.50
Elderberry, Red	50	Tubling, 10 cu. in. container {(MEANS)	\$1.46	\$0.00	\$73.00
Serviceberry	50	Tubling, 10 cu. in. container {(MEANS)	\$1.45	\$0.00	\$72.50
		Tota	ls Nursery Stoo	k Cost / Acre	\$306.50

# **JOB TIME AND COST**

No. of Acres: 2.1

Cost / Acre: \$2,430.81

Estimated Failure Rate: 25%

Cost / Acre\*: \$2,124.31

\*Selected Replanting Work Items: FERTILIZING, TILLING, SEEDING,

MULCHING

Initial Job Cost: \$5,104.70

Reseeding Job Cost: \$1,115.26

Total Job Cost: \$6,219.96

Job Hours: 4.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Mobilize reclamation crew and equipment

Site: Smuggler Mine

Permit Action: 2013-08 Review

Permit/Job#: M1995097

**PROJECT IDENTIFICATION** 

Task #:

07A 8/1/2013 State:

Colorado

Abbreviation:

None

Date: User:

**DMC** 

Pitkin County:

Filename:

M097-07a

Agency or organization name: DRMS

**EQUIPMENT TRANSPORT RIG COST** 

Shift basis:

1 per day

Cost Data Source:

**CRG** Data

Truck Tractor Description:

GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description:

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER

(25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

# **NON ROADABLE EQUIPMENT:**

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D6T LGP	28.63	\$0.00	\$117.55	1	\$117.55	\$117.55	\$250.00
CAT 972H	28.00	\$35.56	\$117.55	1	\$153.11	\$117.55	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals:

\$366.36

\$323.77

\$750.00

#### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.34	1	\$15.34	\$15.34

Subtotals:

\$15.34

\$15.34

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

35.00

mph

Total Non-Roadable Mob/Demob Cost \*

'\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

\*\* one round trip, no haul rig:

\$2,429.90

\$4.38

# **Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

# **JOB TIME AND COST**

Total job time: 2.57 Hours

Total job cost: \$2,434.28