COST SUMMARY WORK

Fask de	escription:	Recontour waste dump		- ota- ogo-			
Site:	JD-6 Min	e	Permit Action:	AM01 EPP	Permit/Job#:	M1977310	

PROJECT IDENTIFICATION

Task #:J01State:ColoradoAbbreviation:NoneDate:12/4/2013County:MontroseFilename:M310-J01

User: SJM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
002	removal of waste material 2:1 slope	EXCAVATE	1	57.79	\$5,427.00
003	pocking	EXCAVATE	1	8.25	\$775.00
005	mobilization of Dozer and Excavator	MOBILIZE	1	1.01	\$1,208.20
006	demo of building	DEMOLISH	1	0.00	\$2,837.21
008	PUF to 10' depth	MINESEAL	1	0.00	\$5,273.70
009	Backfill Mine Portal	MINESEAL	1	0.00	\$1,577.80
010	SEEDING	REVEGE	1	0.00	\$3,280.14
J01	recontour waste dump	DOZER	1	102.61	\$12,910.11
		SUBTO	ΓALS:	169.66	\$33,289.16

REVEGETATION WORK

	Γask description:	Seed				
Site:	JD-6 Mine		Permit Action:	Revegetation	Permit/Job#:	M1977310

PROJECT IDENTIFICATION

Task #: 009 State: Colorado Abbreviation: None

Date: 12/4/2013 County: Montrose Filename: M310-009

User: SJM

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Ferti	lizer Application Cost/Acre \$0.00

TILLING

Description		Cost /Acre
		\$
	Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	2.00	32.64	\$21.30
Indian Ricegrass - Paloma	4.00	12.95	\$34.84
Galleta	2.00	7.30	\$50.40
Slender Wheatgrass - Native	2.00	7.30	\$4.50
Western Wheatgrass - Arriba	8.00	20.20	\$29.44
Needle and Thread	1.00	2.64	\$46.99
Needlegrass, Green - Lodorm	2.00	8.31	\$10.78
Flax, Lewis Blue	1.00	6.63	\$16.52
Saltbush, Four Wing	3.00	4.13	\$32.19
Globemallow, Scarlet (or copper)	0.03	0.34	\$4.21

	1.00	2.55	\$32.69
	0.05	1.11	\$1.55
Totals Seed Mix	26.08	106.10	\$285.41
	Totals Seed Mix	0.05	0.05 1.11

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
		-	\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre.
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
V.					\$
		То	als Nursery Stoo	ek Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 6

Estimated Failure Rate: 20% Cost /Acre*: \$546.69

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$3,280.14

Reseeding Job Cost: \$656.03

Total Job Cost: \$3,936.17

Job Hours: 0.00

Cost /Acre: \$546.69

SAFEGUARDING UNDERGROUND OPENINGS

Task description:

Backfill Mine Portal

Site: JD-6 Mine

Permit Action: AM01 EPP

Permit/Job#: M1977310

PROJECT IDENTIFICATION

Task #:

009

State:

Colorado

Abbreviation:

None

Date: User:

12/4/2013 SJM

County:

Montrose

Filename:

M310-009

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Backfill Mine Portal	7' x 7'	Adit closure - backfilling (per cu. yd.)	980.00	CY	\$1.61	\$1,577.80

Job Hours: 0.00

Total Cost: \$1,577.80

	BULLDO	ZER WORK		
Task description: JD-6 Mine	Recontour waste dump Permit Action:	Dozing	Permit/Job#:	M1977310
				1.21377510
PROJECT IDENTIFIC	CATION			
Task #: 001	State: Colorado)	Abbreviation:	None
Date: 12/4/2013	County: San Mig	uel	Filename:	M310-001
User: SJM				
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D6T			
Horsepower: 185				
	-Universal			
Attachment: NA	1 300			
Shift Basis: 1 per				
Data Source: (CRC	1)	<u> </u>		
Cost Breakdown:		TT.11 - 0 /		
Oumership Cost/Llour	¢2∩ //2	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$30.43 \$57.97	NA 100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
MATERIAL QUANTI Initial Volume: _7,000	TIES			
Swell factor: 1.060				
Loose volume: 7,420	LCY			
Source of estimated volum Source of estimated swell i		ation, Mining & Safety		
HOURLY PRODUCT	ION			
Average push distance: Unadjusted hourly product	75 feet 357.1 LCY/hr			
Materials consistency desc	ription: Compacted fill or	embankment 0.9		
Average push gradient:	25 %			
Average site altitude:	6,200 feet			
Material weight:	2,900 lbs/LCY		_	
Weight description:	Sand and gravel - Dry			
Job Condition Correction F		Source		
Operator SI	cill: 0.750	(AVG.)		

0.900

1.200

(CAT HB))

(SLOT)

Material consistency:

Dozing method:

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.422	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2025

Adjusted unit production:

72.31 LCY/hr

Adjusted fleet production:

72.31 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.740/LCY

Total job time:

102.61 Hours

Total job cost: \$12,910.11

HYDRAULIC EXCAVATOR WORK

Task description:	Removal of waste	material 2	2:1 slope		
e: JD-6 Mine	Perm	nit Action:	Excavator	Perm	it/Job#: M1977310
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 002 Date: 12/4/2013 User: SJM	State: County:	Colorado San Migu	el	Abbrevi File	ation: None M310-002
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine:	Cat 315D L 8'-6" So ROPS Cab	tick		Horsepower: Weight (MT): Shift Basis: Data Source:	115 17.32 1 per day (CRG)
Cost Breakdown:					(CRG)
Ownership Cost/F Operating Cost/F Operator Cost/F Total Unit Cost/F	Hour: \$36.1 Hour: \$33.9	2 4	Utilization % NA 100 NA	 	
Total Fleet Cost/l					
Loose volume: 7,	ITIES 000 420 f estimated volume:	CCY LCY Division	Swell fact of Reclamation, 1		_
	imated swell factor:	Cat Hand		vinning & balety	
HOURLY PRODUCT					
Excavator Cycle Time (lo	ad bucket, swing load	ded, dump l	oucket, swing emp	pty):	
	Secondary Job Co		Condition Description Basic Description Cycle Time Va	tion: AVERAGE	
Load Bucket Capacity				Bucket Size Class	s: Medium
Rated Capacity Bucket Fill Factor Adjusted Capacity	0.825	LCY (he Blasted r		1 (75 - 90%) 0.825	
Job Condition Correction		-	Site	Altitude: 6200 feet	İ
A	1.00 0.83 0.83 djusted Hourly Unit F djusted Hourly Unit F ljusted Hourly Fleet F	roduction:	B)	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>5T</u>				
Fleet size:	Excavator	r T	otal job time:	57.79	Hours
Unit cost: \$0.7	31 /LCY		Total job cost:	\$5,427.00	

HYDRAULIC EXCAVATOR WORK

	Pockin	g				
: JD-6 Mine		Per	mit Action:	Excavator pocking slope	Permit/J	ob#: <u>M1977310</u>
PROJECT IDENT	IFICATIO	N				
Task #: 003 Date: 12/4/201 User: SJM		State: County:	Colorado San Migu	el	Abbreviatio Filenan	
Agency or or	ganization na	me: DF	RMS			
HOURLY EQUIPN	MENT COS	 ST				
Basic Machine: Attachment 1:		L 8'-6" S	Stick	W€	orsepower:eight (MT):shift Basis:ata Source:	115 17.32 1 per day (CRG)
Cost Breakdown:						
Ownership Cos Operating Cos Operator Cos	st/Hour:	\$23.8 \$36. \$33.9	12	Utilization % NA 100 NA		
Total Unit Cos		\$93.9		INA		
Total Fleet Co	ost/Hour:	\$93.	.91			
MATERIAL QUAN	NTITIES					
Initial volume: Loose volume:	1,000 1,060		CCY LCY	Swell factor:	1.060	
Sourc	e of estimate	d volume:	— Division	of Reclamation, Mir	ning & Safety	
Source of	estimated sw	ell factor:	Cat Hand	lbook		
HOURLY PRODU		ell factor:	Cat Hand	lbook		
	CTION		-		<u>):</u>	
HOURLY PRODU	CTION		aded, dump b		_	
HOURLY PRODU	CTION (load bucket	, swing loa	aded, dump be Basic Job Condition with	oucket, swing empty ondition Description in Basic Description	a: AVERAGE AVERAGE	
HOURLY PRODUCES Excavator Cycle Time	CTION (load bucket	, swing loa	aded, dump be Basic Job Condition with	oucket, swing empty	a: AVERAGE AVERAGE	minutes
HOURLY PRODU	CTION (load bucket	, swing loa	aded, dump be Basic Job Condition with	oucket, swing empty ondition Description in Basic Description Cycle Time Value	a: AVERAGE AVERAGE	minutes Medium
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac	CTION (load bucket Second	ary Job Co	Basic Job Condition with LCY (he	oucket, swing empty ondition Description in Basic Description Cycle Time Value	a: AVERAGE a: AVERAGE 0.256 Bucket Size Class:	
Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity	CTION (load bucket Second sity: tor: (ity:	swing loa ary Job Co	Basic Job Condition with	oucket, swing empty ondition Description in Basic Description Cycle Time Value E aped) ock - avg. blasted (a: AVERAGE a: AVERAGE 0.256 Bucket Size Class: 75 - 90%) 0.825	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac	CTION (load bucket Second sity: tor: (ity:	ary Job Co	Basic Job Condition with LCY (he Blasted r LCY	oucket, swing empty ondition Description in Basic Description Cycle Time Value E aped) ock - avg. blasted (Site Al	a: AVERAGE a: AVERAGE 0.256 Bucket Size Class:	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Altitude Adj: Job Efficiency:	Second ity: tor: on Factors 1.00 0.83	0.80 0.825 0.66	Basic Job Condition with LCY (here Blasted recognition LCY) Source (CAT HI (1 shift/date)	oucket, swing empty condition Description in Basic Description Cycle Time Value Enped) ock - avg. blasted (Site Al	a: AVERAGE a: AVERAGE 0.256 Bucket Size Class: 75 - 90%) 0.825	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Altitude Adj: Job Efficiency: Net Correction:	Second Second Sity: tor: city: on Factors 1.00 0.83	0.80 0.825 0.66	Basic Job Condition with LCY (he Blasted r LCY Source (CAT HI (1 shift/da multiplier	ondition Description in Basic Description Cycle Time Value Enped) ock - avg. blasted (Site Al	a: AVERAGE a: AVERAGE 0.256 Bucket Size Class: 75 - 90%) 0.825	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Altitude Adj: Job Efficiency: Net Correction:	Second ity: tor: on Factors 1.00 0.83	ary Job Co 0.80 0.825 0.66 Durly Unit burly Unit	Basic Job Condition with LCY (here Blasted reconstruction) Source (CAT HI (1 shift/damultiplier Production: Production:	oucket, swing empty condition Description in Basic Description Cycle Time Value Enped) ock - avg. blasted (Site Al	a: AVERAGE a: AVERAGE 0.256 Bucket Size Class: 75 - 90%) 0.825	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Altitude Adj: Job Efficiency: Net Correction:	CTION (load bucket Second ity: tor: (ity: on Factors 1.00 0.83 0.83 Unadjusted Ho Adjusted Ho Adjusted Ho	ary Job Co 0.80 0.825 0.66 Durly Unit burly Unit	Basic Job Condition with LCY (here Blasted reconstruction) Source (CAT HI (1 shift/damultiplier Production: Production:	oucket, swing empty condition Description in Basic Description Cycle Time Value Enped) ock - avg. blasted (Site Al 3) y) 154.69 128.39	a: AVERAGE a: AVERAGE a: AVERAGE c: 0.256 Bucket Size Class: 75 - 90%) 0.825 Ititude: 6200 feet LCY/Hour LCY/Hour	
Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Altitude Adj: Job Efficiency: Net Correction:	CTION (load bucket Second ity: tor: (ity: on Factors 1.00 0.83 0.83 Unadjusted Ho Adjusted Ho Adjusted Ho	ary Job Co 0.80 0.825 0.66 Durly Unit burly Unit	Basic Job Condition with LCY (her Blasted r LCY Source (CAT HI (1 shift/dz multiplier Production: Production: Production:	oucket, swing empty condition Description in Basic Description Cycle Time Value Enped) ock - avg. blasted (Site Al 3) y) 154.69 128.39	a: AVERAGE a: AVERAGE a: AVERAGE c: 0.256 Bucket Size Class: 75 - 90%) 0.825 Ititude: 6200 feet LCY/Hour LCY/Hour	

SAFEGUARDING UNDERGROUND OPENINGS

Task description:

Backfill Mine Portal

Site: JD-6 Mine

Permit Action: AM01 EPP

Permit/Job#: M1977310

PROJECT IDENTIFICATION

Task #:

State:

Colorado

Abbreviation:

None

Date: User:

12/4/2013 SJM

County: Montrose Filename:

M310-009

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Backfill Mine Portal	7' x 7'	Adit closure - backfilling (per cu. yd.)	980.00	CY	\$1.61	\$1,577.80

Job Hours: 0.00

Total Cost: \$1,577.80

SAFEGUARDING UNDERGROUND OPENINGS

ask description:	PUF to 10'	depth				
D-6 Mine		Permit Action:	AM01 EPP	Permit/J	lob#:	M1977310
T IDENTIFICATIO	N					
008	State:	Colorado		Abbreviation:	None	€
12/4/2013	County:	Montrose	11	Filename:	M31	0-008
SJM						
	D-6 Mine Γ IDENTIFICATIO 008 12/4/2013	D-6 Mine Γ IDENTIFICATION 008 State: 12/4/2013 County:	D-6 Mine Permit Action: TIDENTIFICATION 008 State: Colorado 12/4/2013 County: Montrose	D-6 Mine Permit Action: AM01 EPP TIDENTIFICATION O08 State: Colorado 12/4/2013 County: Montrose	Permit Action: AM01 EPP Permit/S TIDENTIFICATION State: Colorado Abbreviation: 12/4/2013 County: Montrose Filename:	D-6 Mine Permit Action: AM01 EPP Permit/Job#: TIDENTIFICATION State: Colorado Abbreviation: None 12/4/2013 County: Montrose Filename: M31

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
PUF mine vents to 10'	7' x 7'	Shaft closure - polyurethane foam plug (per cu. yd.)	30.00	CY	\$175.79	\$5,273.70

Job Hours:	Total Cost:	\$5,273.70
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DEMOLITION WORK

	Task description	on: Demo	o of building				_
Site:	JD-6 Mine		Permit Action: Demo	· · ·	Per	mit/Job#:	M1977310
PROJE	CT IDENTI	FICATION					
Task # Date User	: 12/4/2013 : SJM		State: Colorado punty: Montrose me: DRMS		Abbreviation Filenar		ne 10-006
UNIT C	<u>OSTS</u>	-		2	Location :	ıdjustmer	ıt: 94.70 %
	ure or Item scription	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
dry build	ling removal	20x20	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	2,800.00	CF	\$1.07	\$2,996.00
Job F	Hours:	0.00	Subtotal (unadjusted): \$2,5	996.00	(adju	tal Cost sted for cation):	\$2,837.21