

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY
Department of Natural Resources

1313 Sherman St., Room 215
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John W. Hickenlooper
Governor

Mike King
Executive Director

Loretta Piñeda
Director

November 2, 2012

Gary Woodworth
The Gallegos Corporation
P.O. Box 821
Vail, CO 81658

Re: Conger Harvesting Area, Acreage Reduction, Permit No. M-1998-022, Revision No. AR-2

Dear Mr. Woodworth:

On October 31, 2012, the Colorado Division of Reclamation, Mining and Safety (Division) received your request to remove Task No. 2 (Re-grading and Ripping of Bench with Dozer) and to reduce the mobilization costs based on no longer needing a dozer at the site.

The Division has recalculated the reclamation bond estimate based on this request and has determined that the required bond to reclaim the site is now \$5,478.23. Therefore, the currently held bond amount of \$7,725.00 is adequate at this time. Please see the enclosed revised reclamation bond estimate. Please contact me immediately if any errors exist.

If you have any questions, please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 South 3rd Street, Room 301, Grand Junction, Colorado 81501, phone no. (970) 241-2042.

Sincerely,

Travis H. Marshall
Environmental Protection Specialist

Enclosure: Reclamation Cost Update

cc: William Balaz
Tetra Tech
120 West Park Drive, Suite 204
Grand Junction, CO 81505

COST SUMMARY WORK

Task description: Revised Final Reclamation Cost Estimate

Site: Conger Harvesting Area

Permit Action: AR-2

Permit/Job#: M1998022

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 9/13/2012

County: Gunnison

Filename: M022-001

User: THM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade site to 2H:1V	EXCAVATE	1	15.46	\$1,570.00
02a	Revegetation	REVEGE	1	8.00	\$1,267.19
03a	Mobilization	MOBILIZE	1	6.00	\$1,150.28
<u>SUBTOTALS:</u>				29.46	\$3,987.47

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02%

Total = \$80.55

Performance bond: 1.05%

Total = \$41.87

Job superintendent: 2.00 hrs

Total = \$118.60

Profit: 10.00%

Total = \$398.75

TOTAL O & P = \$639.77

CONTRACT AMOUNT (direct + O & P) = \$4,627.24

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00%

Total = \$0.00

Reclamation management and/or administration: 5.00%

\$231.36

CONTINGENCY: 3.00

Total = \$119.62

TOTAL INDIRECT COST = \$1,490.76

TOTAL BOND AMOUNT (direct + indirect) = \$5,478.23

HYDRAULIC EXCAVATOR WORK

Task description: Regrade site to 2H:1V

Site: Conger Harvesting Area

Permit Action: AR-2

Permit/Job#: M1998022

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 9/13/2012

County: Gunnison

Filename: M022-01a

User: THM

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 319D L 8'-10" Stick

Attachment 1: ROPS Cab

Horsepower: 125

Weight (MT): 19.55

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$22.27	NA
Operating Cost/Hour:	\$40.56	100
Operator Cost/Hour:	\$38.67	NA
Total Unit Cost/Hour:	\$101.51	
Total Fleet Cost/Hour:	\$101.51	

MATERIAL QUANTITIES

Initial volume: 2,493

CCY

Swell factor: 1.000

Loose volume: 2,493

LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description:	<u>AVERAGE</u>
Secondary Job Condition within Basic Description:	<u>AVERAGE</u>
Cycle Time Value:	<u>0.282</u> minutes

Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity:	<u>1.10</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.000</u>	Rock - Well Blasted (95%-105%) 1.000
Adjusted Capacity:	<u>1.10</u>	LCY

Job Condition Correction Factors

Site Altitude: 7950 feet

Altitude Adj:	<u>0.83</u>	Source (CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.69</u>	multiplier

Unadjusted Hourly Unit Production:	<u>234.04</u>	LCY/Hour
Adjusted Hourly Unit Production:	<u>161.23</u>	LCY/Hour
Adjusted Hourly Fleet Production:	<u>161.23</u>	LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 15.46 Hours

Unit cost: \$0.630 /LCY Total job cost: \$1,570.00

REVEGETATION WORKTask description: RevegetationSite: Conger Harvesting AreaPermit Action: AR-2Permit/Job#: M1998022**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 9/13/2012County: GunnisonFilename: M022-03aUser: THMAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.32	\$64.00
			Total Fertilizer Materials Cost/Acre	\$64.00

Application

Description	Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)	\$498.76
Total Fertilizer Application Cost/Acre	\$498.76

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	1.33	6.41	\$3.33
Orchardgrass - Latar	4.00	49.59	\$8.64
Mountain Brome - Bromar	4.00	6.43	\$13.32
Milk Vetch, Cicer - Monarch	1.67	5.56	\$8.35
Sainfoin - Eski	3.33	1.45	\$8.19
Totals Seed Mix	14.33	69.44	\$41.83

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$255.76

Total Seed Application Cost/Acre	\$255.76
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$164.00	\$164.00
Total Mulch Materials Cost/Acre				\$164.00

Application

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$2,807.20
Total Mulch Application Cost/Acre	\$2,807.20

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Fir, Douglas	5	Container, 1 gallon (MEANS)	\$13.50	\$0.00	\$67.50
Totals Nursery Stock Cost / Acre					\$67.50

JOB TIME AND COST

No. of Acres:	0.25	Cost /Acre:	\$3,899.05
Estimated Failure Rate:	30%	Cost /Acre*:	\$3,899.05
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,NU RSERY,MULCHING		

Initial Job Cost:	\$974.76
Reseeding Job Cost:	\$292.43
Total Job Cost:	\$1,267.19
Job Hours:	8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: MobilizationSite: Conger Harvesting AreaPermit Action: AR-2Permit/Job#: M1998022**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 9/13/2012County: GunnisonFilename: M022-04aUser: THMAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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 Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 319D L 8'-10" Stick	21.50	\$22.27	\$88.67	1	\$110.94	\$88.67	\$250.00

Subtotals: **\$110.94** **\$88.67** **\$250.00****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.	\$14.59	1	\$14.59	\$14.59

Subtotals: **\$14.59** **\$14.59**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>CARBONDALE</u>	
Total one-way travel distance:	<u>25.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,121.10</u>
* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$29.18</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time: 6.00 Hours

Total job cost: \$1,150.28