September 3, 2015

Ed MacArthur Alpine Aggregates, LLC P.O. Box 880202 Steamboat Springs, CO 80487



COLORADO **Division of Reclamation**, **Mining and Safety** Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

RE: Steamboat Sand and Gravel Pit, Permit No. M-2001-090, Estimated Reclamation Costs **Update**

Dear Mr. MacArthur:

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).

Division calculations estimate the cost to reclaim the above referenced site to be *\$573,838*. This is an increase of **<u>\$151,838</u>** over the <u>\$422,000</u> currently held by the Division. This estimate is based on conditions observed during the August 6, 2015 inspection. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Inadvertently the cost of purchasing 10,000 CCY of fill material deficit per the reclamation plan was incorrectly calculated in our software for the 2012 bond calculation. This error when corrected resulted in a significant increase in reclamation cost as compared to typical inflation and industry price changes. Per the phone conversation with the operator on September 2, 2015 this need for fill may be corrected by revising the mining and reclamation plan.

The operator should submit a Technical Revision, with the required \$216 revision fee, to update and clarify the need for imported fill material during the final phase of mining rather than carrying the liability through the entire mining process to achieve final reclamation by Monday, November 2, 2015.

If no Technical Revision is received by November 2, 2015 than it is the Divisions understanding that the operator has no objections to the bond calculated on August 18, 2015 for the amount of \$573,838 according the <u>current</u> permit conditions. At that time a Notice for Surety Increase will be issued for the above amount as required by the Act and Rules.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

my year Amy Yeldel



Ed MacArthur September 3, 2015 Page 2

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511 Fax: (970) 241-1516

Ec: Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate

COST SUMMARY WORK

River Valley Resource		Permit Action:	2015-Post Inspection	Permit/J	ob#: <u>M200109</u>
PROJECT IDENTIFICA	<u>FION</u>				
Task #:001	State:	Colorado		Abbreviation:	None
Date: 8/18/2015	County:	Routt		Filename:	M090-001

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01b	Remove scale and scalehouse	DEMOLISH	1	20.00	\$9,801.60
02b	Dewater Phase 1A Pit	PUMPING	1	232.22	\$32,495.00
03b	Import backfill material	TRUCK1	1	175.75	\$201,679.00
04b	Placement of backfill	LOADER	4	246.15	\$142,300.00
05b	Grade backfill material	DOZER	1	18.74	\$3,915.00
06b	Placement of topsoil	DOZER	1	34.96	\$7,303.00
07b	Reveg. shoreline	REVEGE	1	16.00	\$12,907.00
08b	Reveg. Hay Meadows	REVEGE	1	36.00	\$40,724.00
09b	Mobilize reclamation crew and equipment	MOBILIZE	1	3.14	\$5,661.00
10b	Secondary mobilize reclamation crew and equipment	MOBILIZE	1	0.57	\$92.00
		783.53	\$456,878		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%		Total =	\$9,228.94
Performance bond:	1.05%		Total =	\$4,797.22
Job superintendent:	391.76 hrs		Total =	\$29,444.68
Profit:	10.00%		Total =	\$45,687.80
			TOTAL O & P =	\$89,158.64
	CON	TRACT AMOUN	Γ (direct + O & P) =	\$546,036.64
LEGAL - ENGINEERING - PR Financial warranty process Engineering work and/or	sing (legal/related costs):	: 500.00 0.00%	Total =	_500.00 \$0.00
- +	nt and/or administration:	5.00%		\$27,301.83
	CONTINGENCY:	0.00	Total =	\$0.00
		TOTAL I	NDIRECT COST =	\$116,960.47
	\$573,838.47			

DEMOLITION WORK

		se	le and scalehou	Remove sca	ask description:	Т
M2001090	Permit/Job#:	2015-Post Inspection	Permit Action:		River Valley Resource	Site:
				1	T IDENTIFICATION	<u>PROJEC</u>
e	breviation: Non	A	Colorado	State:	01B	Task #:
00-01b	Filename: M09		Routt	County:	8/18/2015	Date:
					ACY	User:
j	Filename: M09		Routt	2		

UNIT COSTS

Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	60L x 12W x 10H (ft)	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	7,200.00	CF	\$1.08	\$7,768.80
Scale	60'L x 15'W (ft)	Demo/Load/Haul to Milner landfill - 20 mi.	1.00	EA	\$1,786.00	\$1,786.00
Scale house foundation	60L x 12W	Floor, concrete, demolition only, average reinforcing - 6 in. thick	720.00	SF	\$1.64	\$1,180.80

				Total Cost	
Tob House	20.00	Subtotal		(adjusted for	
Job Hours:	20.00	(unadjusted):	\$10,735.60	location):	\$9,801.60

PUMPING WORK

Task description:	Dewater Phase 1A Pit			
River Valley Resource	Permit Action	: 2015-Post Inspection	Permit/Job#:	M2001090
PROJECT IDENTIFIC	ATION			
Task #: 02B	State: Colorad	0	Abbreviation:	None
Date: 8/18/2015	County: Routt		Filename:	M090-02b
User: ACY			_	
Agency or organization	ation name: DRMS			
HOURLY EQUIPMEN	T COST			
	Description		Quantity	
	Centrifugal pump - 200M, 10) in.	Quantity	
	Suction pipe - 10 in. diam., 2		2	
	Discharge pipe - 10 in. D., 2	5 ft.	2	
Labor Unit 1:	Pump operator		1	
Horsepower: 70)			
Shift Basis: 1 per				
Weight: 1.9				
(US T	ions)			
Cost Breakdown:		Utilization %		
Ownership Cost/Hot	ur: \$34.86	NA		
Operating Cost/Hot		100		
Operator Cost/Hor		NA		
Total Unit Cost/Hor	ur: \$139.93			
Total Fleet Cost/Ho	our: \$139.93			
PUMPING QUANTITI				
Initial Pond Volum			Conversion factor:	225850 5800
Final Pond Volum		gallons	Conversion factor.	325850.5800
Total Pond Inflow Surfa		Building	Unit inflow rate in	
Are		Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Volum				
per Hou	ır: 13,185.00	gallons		
Source of e	estimated volume: Mine n	nap		
PUMPING TIME				
Maxim	um Pump Capacity:	200,000	gph/pump	
Estir	nated Suction Head:	25	feet	
Estima	ted Discharge Head:	0	feet	
-	Total Head:	25	feet	
(CPB Pump Capacity:	93,000	gph/pump	
	Site Altitude:	7,850	feet	
A dinster	l Pumping Capacity:	372,000	anh	
	sted Pumping Time:	268.85	gph hours	
Inflow during Initial Pumping:		3,544,827	gallons	
Net Unadjusted Pumping Time:		278.38	Hours	
		0.0400	(3% rule)	
Net Unadju Altitude	e Adjustment Factor:	0.9100	_ (3701010)	
Net Unadju Altitude Pum	e Adjustment Factor:	0.9167	(55 min./hr.)	
Net Unadju Altitude Pum	e Adjustment Factor:		,	
Net Unadju Altitude Pum	e Adjustment Factor: p Efficiency Factor: usted Pumping Time:	0.9167	(55 min./hr.) hours	

Unit cost:	\$0.000314	/Gallon	
onn oost.	0.000011	/ Guilon	

Total job cost: \$32,495

TRUCK/LOADER TEAM WORK

Task descrij	Task description: Import backfill ma					
Site: River Va	te: River Valley Resource Permit		t Action: 2015-Post Inspection		Permit/Job#:	M2001090
PROJEC	<u> IDENTIFIC</u>	CATION				
Task #: Date: User:	03B 8/18/2015 ACY		Colorado Routt		Abbreviation: Filename:	None M090-03b
	gency or organi		15		This having the set	
HOURLI	EQUITME		Fau		Shift basis: <u>1 per day</u>	
	Truck L	oader Team -Truck:		ipment Description 2 12-18 cy, 6x4		
		-Loader:	CAT 97	-		
	Support Equ	ipment -Load Area:	NA			
		-Dump Area:	NA			
	Road Maintena	ince -Motor Grader:	NA			

Cost Breakdown:	Truck/Loader Team		Suppor	t Equipment	Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$15.21	\$38.44	NA	NA	NA	NA
Operating cost/hour:	\$66.59	\$68.95	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$26.72	\$37.13	NA	NA	NA	NA
Unit Subtotals:	\$108.51	\$144.52	NA	NA	NA	NA
Number of Units:	4	1	0	0	0	0
Group Subtotals:	Work:	\$578.56	Support	\$0.00	Maint:	\$0.00

NA

-Water Truck:

Total work team cost/hour: \$578.56

MATERIAL QUANTITIES

Initial volume:	10,000	CCY	Swell factor:	1.000	
Loose volume:	10,000	LCY			
Sour	ce of estimated volume:	Division of	f Reclamation, Mini	ng & Safety	
Source o	f estimated swell factor:	Cat Handb	ook		
Material Purchase Cost:		\$10.00			
	Total Cost:	\$100,000.0	00		

HOURLY PRODUCTION

Truck Capacity:			
Truck Payload (weight) Bas	is:		
Material weight:	2,100	Pounds/LCY	
Description:	Earth - Loam		
Rated Payload:	50,300	Pounds	
Payload Capacity:	23.95	LCY	

LCY

Truck Bed (volume) Basis:			
Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
Fina	l Truck Volu	me Based on Number of Loader Passes:	16.38
Loading Tool Capacity			
		Bucket	Size Class:

ing 1001 Capacity		
		Bucket Size Class: NA
Rated Capacity:	5.600	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - mixed moist aggregates (95-100%) 0.975
Adjusted Capacity:	5.460	LCY

Job Condition Corrections:

Site Altitude (ft.): 6850 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
let Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA Selected Value within this Basic Rating: NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:	NA	Maneuver:	NA	Dump:	0.100		
Wheel and T	rack Loaders - U	Inadjusted Basic Loader	Cycle Time (load	l, dump, maneuver):	0.525	minutes	
Cycle	Time Factors			Easter (r		Courses	

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(Cat HB)
Truck Ownership:	Independently owned trucks 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:	0.040	minutes
	Adjusted Loader Cycle Time:	0.565	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	1.230	Minutes	Adjusted for site altitude:	1.230	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time:	
penetration 1.2	

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

Net Load Time per Truck: 1.230

minutes

Truck/Loader Worksheet Cont'd

Haul Roi Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	79200	.00	0.00	1.20	1.20	2895	27.491	
					Haul Time:	27.491	minutes	
Return R	oute:				_			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	79200	.00	0.00	1.20	1.20	2913	27.223	
					Return Time:	27.223	minutes	
				Total Tru	ick Cycle Time:	57.344	minutes	
Loading To	ol unit							
	luction	568.09	LCY/Hour		Adjusted for j	ob efficiency:	471.52	LCY/Hour
ruck Unit Prod	luction							
	-	17.14	LCY/Hour		Adjusted for j	ob efficiency:	14.23	LCY/Hour
ptimal No. of T	rucks:	33	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
			Adjuste	ed hourly true	k team production	on: 56.	90 LCY/	'Hour
					er team production		90 LCY/	Hour
			Adjusted multip	le truck/loade	er team production	on: 56.	90 LCY/	Hour
	ME AN	D COST						
JOB TI								
	t size:	1	Team(s)		Total job time:	175.7	75 Hor	urs

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Placemer	nt of backfill				
River Valley Reso	irce	Permit Actio	on: 2015-Pos	t Inspection	Permit/Job#	: M2001090
PROJECT IDENT	IFICATION					
Task #: 04B		State: Colora	do		Abbreviation:	None
Date: 8/18/20	15 C	County: Routt			Filename:	M090-04b
User: ACY						
Agency or or	rganization nam	e: DRMS				
HOURLY EQUIP	MENT COST					
Basic Machine	: CAT 972H			Horse	power:	287
Attachment 1		· · · · · · · · · · · · · · · · · · ·	-		•	per day
						CRG)
Cost Breakdown:						
<u>Ust Dicakuowii.</u>			Utilizatio	m %		
Ownership Co	st/Hour:	\$38.44	NA	/11 / U		
Operating Co		\$68.95	100			
Operator Co	st/Hour:	\$37.13	NA			
Total Unit Co	st/Hour:	\$144.52				
Total Fleet C	ost/Hour:	\$578.08				
MATERIAL QUA	NTITIES					
		0.01		11.0		
Initial volume: Loose volume:	<u>190,953</u> 190,95	CCY 3 LCY		ell factor:	1.000	
	ce of estimated					
Source o	f estimated swel	Il factor: Cat H	Iandbook			
HOIDINADODI						
HOURLY PRODU	CTION					
Loader Cycle Time:	Unadjuste	ed Basic Cycle T	ime (load, dum	p, maneuver)	: 0.525	minutes
Cycle Time Fa	actors	-				
		material 0.02			Factor (min.) 0.020	Cat HB)
		ed by truck 0.02			0.020	(Cat HB)
Truck Owne		ustment - factor	not applicable (0.00	0.000	(Cat HB)
Oper	ation: Consta	nt operation -0.0	4		-0.040	(Cat HB)
Dump T	arget: Nomin	al target 0.00			0.000	(Cat HB)
			Cycle Time A	÷	0.000	minutes
		Ad	justed Basic C	ycle Time: _	0.525	minutes
Rolling Resistance - I	Road Conditions	S				
		-		.		
Retu		irt, little maintena irt, little maintena				
		ar, mue mannena	mee, no water,	2 the peneti	1411011 3.0	
Haul and Return Time	2					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	1
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	500	0.00	5.00	5.00	0.4611	(Cat HB)
Return Route:	500	0.00	5.00	5.00	0.4160	(Cat HB)
						/

				Total Travel Tin Total Cycle Tin		minutes minutes
Load Bucket Capac	ity					
Rated Ca Bucket Fill Adjusted Ca	Factor:	5.60 0.975 5.46	LCY (hea Loose ma LCY	ped) terial - mixed mois	t aggregates (95-10	00%) 0.975
Job Condition Corr Site Altitude: <u>7850</u>		<u>S</u>	-			
Altitude A Job Efficier Net Correcti	icy:	1.00 0.83 0.83	Source (CAT HB (1 shift/da multiplier	y)		
	Adjusted	l Hourly Unit F l Hourly Unit F Hourly Fleet F	Production:	233.65 193.93 775.73	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME ANI	<u>COST</u>					
Fleet size:	4	Loader(s)		Total job time:	246.16	Hours
Unit cost:	\$0.745	/LCY		Total job cost:	\$142,300	

BULLDOZER WORK

Task description:	Grade backfill	material			
River Valley Resour	r ce Pe	ermit Action:	2015-Post Inspection	Permit/Job#:	M2001090
PROJECT IDENTI	FICATION				
Task #: 05B	State:	Colorado		Abbreviation:	None
Date: 8/18/2015	5 County:	Routt		Filename:	M090-05b
User: ACY				-	
Agency or org	anization name:	ORMS			
HOURLY EQUIPM	IENT COST				
	at D8T - 8U				
	10				
	Iniversal				
	IA				
	per day		_		
Data Source: (C	CRG)				
Cost Breakdown:					
o			Utilization %		
Ownership Cost/Hour			NA		
Operating Cost/Hour:			100		
Ripper op. Cost/Hour			0		
Operator Cost/Hour	: \$38.0	1	NA		
MATERIAL QUAN					
	,953)00				
	,953 LCY				
Source of estimated vol Source of estimated swe			naterial placed by loader		
Source of estimated swe	ell factor: <u>Cat Har</u>	abook			
HOURLY PRODUC	CTION				
Average push distance:	50 feet				
Unadjusted hourly prod		CY/hr			
onaujaotea noarry prou		C 1/III			
Materials consistency d	escription: Loose	e stockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	7,850 feet				
Material weight:	2,100 lbs/LCY			_	
Weight description:	Earth - Loam				
Job Condition Correction		0.550	Source		
Operato Material consi		0.750	(AVG.)		
Material const Dozing n		1.200	(CAT HB)		
		1.000	(GEN.) (AVG.)		
Job effic	•	0.830			
100 etti	cicicy.	0.000	(1 SHIFT/DAY)		

Task # 05B

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production:	1,064.71 LCY/hr
Adjusted fleet production:	1064.71 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.196/LCY	
otal ich tima	19 74 Hours	

Total job time:	18.74 Hours	
Total job cost:	\$3,915	

BULLDOZER WORK

River Valley Resource Permit Action: 2015-Post Inspection Permit/Job#: M2001090 PROJECT IDENTIFICATION Task #: 06B County: Routt Post Post Post Post Post Post Post Post	Task description:	Placen	ent of topsoil			
Task #: 06B State: Colorado Abbreviation: None Date: \$118,2015 County: Routt Filename: M090-06b Jate: \$118,2015 County: Routt Filename: M090-06b Hoursty Fourier 10 Basic Machine: Cat D8T - 8U Horspower: 10 Basic Machine: Cat D8T - 8U Horspower: 10 Blade Type: Universal Attachment: NA Shift Basis: 1 per day Date: 200 200 Date Source: (CRO) Solo: 00 0 0 0 Operator Cost/Hour: \$208.90 Solo: 0 0 0 Total unit Cost/Hour: \$208.90 Solo: Solo:<	River Valley Re	source	Permit Action:	2015-Post Inspection	Permit/Job#:	M2001090
Date: §/18/2015 County: Routt Filename: M090-06b User: ACY Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D87 - 8U Horsepower: 310 Blade Type: Universal Atachment: NA Shift Basis: I per day Data Source: (CRG) Cost Breakdown: Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$50.00 0 Ripper op. Cost/Hour: \$208.90 0 Ootal Fleet Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 MatterNal Nouther: 27,985 Swell factor: 1.00 Source of estimated volume: 27,985 LCY Ext L Source of estimated swell factor: Source of estimated swell factor: .010 feet	PROJECT IDEN	TIFICATIO	N			
Date: §/18/2015 County: Routt Filename: M090-06b User: ACY Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D87 - 8U Horsepower: 310 Blade Type: Universal Atachment: NA Shift Basis: I per day Data Source: (CRG) Cost Breakdown: Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$50.00 0 Ripper op. Cost/Hour: \$208.90 0 Ootal Fleet Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 MatterNal Nouther: 27,985 Swell factor: 1.00 Source of estimated volume: 27,985 LCY Ext L Source of estimated swell factor: Source of estimated swell factor: .010 feet	Task #: 06B		State: Colorado		Abbreviation:	None
User: ACY Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D8T - 8U Horsepower: 310 Blade Type: Universal Attachment: NA Shift Basis: Iper day Data Source: (CRG) Cost Breakdown: Overship Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Operator Cost/Hour: \$108.22 100 Operator Cost/Hour: \$208.90 Total Pieter Cost/Hour: \$208.90 MATERIAL OUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push distance: 0% Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Operator Skill: 0.750 (AVG.) Material consistency: 1.000 (CAT HB) Doing method: 1.000 (CEN.)		2015				
Agency or organization name: DRMS HORLY FOUIPMENT COST Basic Machine: Cat D8T - 8U Horsspower: 310 Blade Type: Universal Attachment: NA Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$30.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 Swell factor: 1.000 1.000 Loose volume: \$27,985 Swell factor: Source of estimated volume: Ex. L Source of estimated swell factor: Unadyusted hourly production: 93.1.6 LCY/hr 10 Materials consistency description: Loose stockpile 1.2 1.2 Average site altitude: 7.350 feet 1.600 lbs/LCY Weight description: Top Soil					2	
HOURLY EQUIPMENT COST Basic Machine: Cat DST - 8U Horsepower: 310 Blade Type: Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$208.90 0 Operator Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 Total Init Cost/Hour: \$208.90 0 MATERIAL QUANTITIES Initial Volume: 27.985 Source of estimated volume: Ex. L Source of estimated swell factor: Source of estimated swell factor: Cat Handbook 0 Hourgues bus distance: 100 feet 0 Unadjusted hourly production: 931.6 LCY/hr 0 Materials consistency description: Loose stockpile 1.2 0 Average subs gradient: 0 % 0 0		• • •				
Basic Machine: Cat D8T - 8U Horsepower: 310 Blade Type: Universal Attachmet: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Operating Cost/Hour: \$108.22 Namper op. Cost/Hour: \$108.22 Source of cost/Hour: \$208.90 Total unit Cost/Hour: \$208.90 Total unit Cost/Hour: \$208.90 Total Free Cost/Hour: \$208.90 Total Free Cost/Hour: \$208.90 Source of estimated volume: 27,985 Zry85 LCY Source of estimated volume: Source of estimated volume: Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Material sconsistency description: Loose stockpile 1.2 Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Iob Condition Correction	Agency of	organization na	ame: DRIVIS			
Horsepower: 310 Blade Type: Universal Attachmet: NA Shift Basis: 1 per day Data Source: (CRG) Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$208.90 0 Total Init Cost/Hour: \$208.90 0 Total Fleet Cost/Hour: \$208.90 0 Total Fleet Cost/Hour: \$208.90 0 Source of estimated volume: \$27,985 CY Source of estimated volume: Ex. L Source of estimated swell factor: Source of estimated volume: \$21,985 LCY Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Materials consistency description: Loose stockpile 1.2 Average site altitude: Average site altitude: 7,850 feet 1.000 Material weight: 1,600 lbs/LCY 1.000 Weight description: Top Soil 1.000 Iob Condition Correction Factor. Source Source	HOURLY EQUI	PMENT COS	<u>5T</u>			
Blade Type: NA Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$30.00 0 Operating Cost/Hour: \$33.01 NA Total unit Cost/Hour: \$208.90 NA Total streated cost/Hour: \$208.90 NA MATERIAL OUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Material weight: 1,600 lbs/LCY Material weight: 7,850 feet Material weight: 1,600 lbs/LCY Source Gource Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 1.200 <td></td> <td></td> <td>J</td> <td></td> <td></td> <td></td>			J			
Attachment: NA I per day I per day Data Source: (CRG) Cost Breakdown: Uitilization % Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 0 MATERIAL QUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Cat Handbook More of estimated volume: Ex. L Source of estimated swell factor: Source of estimated swell factor: Cat Handbook 0 HOURLY PRODUCTION Average push distance: 100 feet Materials consistency description: Loose stockpile 1.2 0 Average push gradient: 0 % 0 0 Average site altitude: 7,850 feet 0 0 Material weight: 1,600 lbs/LCY 1 0 0 Weight description: Top Soil 1 0 (AVG.) Material weight: 1,600 lbs/LCY 1 0 <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>	-					
Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$30.00 0 Operator Cost/Hour: \$30.00 0 Total unit Cost/Hour: \$208.90 NA Total Fleet Cost/Hour: \$208.90 NA Total Fleet Cost/Hour: \$208.90 NA MATERIAL OUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated swell factor: Cat Handbook Material sconsistency description: Case stockpile 1.2 Average push distance: 100 feet						
Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$208.90 NA Total unit Cost/Hour: \$208.90 NA Total Fleet Cost/Hour: \$208.90 NA MATERIAL QUANTITIES Suell factor: 1.000 Lose volume: 27,985 LCY Source of estimated swell factor: Source of estimated swell factor: Cat Handbook Material consistency description: HOURLY PRODUCTION Average push distance: 100 feet 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average site altitude: $7,850$ feet Material weight: 1,600 lbs/LCY						
Cost Breakdown: Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op, Cost/Hour: \$38.01 NA Oratal risk cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 NA Total risk cost/Hour: \$208.90 NA MATERIAL QUANTITIES Initial Volume: 27.985 Swell factor: 1.000 Cat Handbook Loose volume: 27.985 LCY Source of estimated volume: Source of estimated volume: Ex. L Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Materials consistency description: Loose stockpile 1.2 Average push gradient: 0% 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.)						
Utilization % NAOwnership Cost/Hour:\$62.67NAOperating Cost/Hour:\$108.22100Ripper op. Cost/Hour:\$208.000Operator Cost/Hour:\$208.900Total unit Cost/Hour:\$208.900Total Fleet Cost/Hour:\$208.900MATERIAL OUANTITIESInitial Volume:27,985Initial Volume:27,985 LCY0Source of estimated volume:Ex. LSource of estimated volume:Cat HandbookHOURLY PRODUCTION931.6 LCY/hrAverage push distance:100 feetUnadjusted hourly production:931.6 LCY/hrMaterials consistency description:Loose stockpile 1.2Average site altitude: $7,850$ feetMaterial weight:1,600 lbs/LCYWeight description:Top SoilJob Condition Correction FactorSource (AVGG) (AVGG)Operator Skill:0.750Material consistency:1.200I.200(CAT HB) Dozing method:Dozing method:1.000IooIceN.1		(UNU)				
Ownership Cost/Hour: \$62.67 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$38.01 NA Operator Cost/Hour: \$208.90 0 Total unit Cost/Hour: \$208.90 NA MATERIAL OUANTITIES	Cost Breakdown:			1		
Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$208.90		•				
Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$208.90 NA Total Fleet Cost/Hour: \$208.90 NA MATERIAL QUANTITIES Initial Volume: 27,985 Initial Volume: 27,985						
Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$208.90				-		
Total unit Cost/Hour: \$208.90 Total Fleet Cost/Hour: \$208.90 MATERIAL QUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated volume: Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material consistency: 1.200		-				
Total Fleet Cost/Hour: \$208.90 MATERIAL QUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated volume: Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material weight: 1.000	Operator Costri	1001.	\$30.01	NA		
MATERIAL QUANTITIES Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated volume: Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % 7,850 feet	Total unit Cost/Hor	ur: \$208.9	0			
Initial Volume: 27,985 Swell factor: 1.000 Loose volume: 27,985 LCY Source of estimated volume: Ex. L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material consistency: 1.200 Operator Skill: 0.750 Material consistency: 1.000 Operator Skill: 0.750	Total Fleet Cost/Ho	our: \$208.9	0			
Average push distance: 100 feet Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 I alterial consistency: 1.200 Material consistency: 1.200 I alterial consistency: 1.000	Swell factor: Loose volume: Source of estimated Source of estimated	1.000 27,985 LCY d volume: d swell factor:				
Unadjusted hourly production: 931.6 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Dozing method: 1.000	HOURLY PRO	DUCTION				
Materials consistency description: Loose stockpile 1.2 Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material consistency: 1.000	Ψ.					
Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Dozing method: 1.000	Unadjusted hourly	production:	931.6 LCY/hr			
Average push gradient: 0 % Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Dozing method: 1.000	Materials consister	ncy description.	Loose stocknile 1	2		
Average site altitude: 7,850 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Dozing method: 1.000		•				
Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Dozing method: 1.000		the second se	feet			
Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)Dozing method:1.000(GEN.)	Material weight:	1,600	bs/LCY			
Operator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)Dozing method:1.000(GEN.)	Weight description	1: Top Se	oil			
Material consistency:1.200(CAT HB)Dozing method:1.000(GEN.)			0.750			
Dozing method: 1.000 (GEN.)						
(11/0.)	D02					
Job efficiency: 0.830 (1 SHIFT/DAY)	Io	-			(7)	

Task # 06B

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	

rajusted and production.	000.52 LC 1/III	
Adjusted fleet production:	800.52 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.261/LCY	
Total job time:	34.96 Hours	
Total job cost:	\$7,303	

REVEGETATION WORK

Task description: Reve	g. shoreline					
River Valley Resource	Permit A	Action: 201:	5-Post Inspecti	on	Permit/Job#	: M2001090
PROJECT IDENTIFICATIO	<u>DN</u>					
Task #: 07B	State: Co	olorado		L	Abbreviation:	None
Date: 8/18/2015	County: Ro	outt			Filename:	M090-07b
User: ACY						
Agency or organization	name: DRMS					
FERTILIZING						
Materials						
Description		Units /	Unit	Cos	t / Unit	Cost /Acre
Description		Acre	Unit			
				\$		\$
		8		Tot	al Fertilizer	
					Materials	60.00
			1		Cost/Acre	\$0.00
Application	10.000					
Description						Cost /Acre
						S
			1			φ
		Tota	l Fertilizer Ap	oplicatio	n Cost/Acre	\$0.00
					<i>"</i>	\$0.00
TILLING						
Description						Castilas
Chisel plowing {DMG}						Cost /Acre \$88.58
Weed control spraying (MEAN	S 31 31 16.13 31	00)				\$145.20
			Tot	tal Tillin	g Cost/Acre	\$233.78
SEEDING						
	. (52		E	Rate –		
Seed Mix			F	PLS	Seeds per SO.	Cost /Acre

	LBS /	per SQ.	
	Acre	FT	
Alkali Sacaton	1.00	39.03	\$22.81
Meadow Sedge	1.00	41.69	\$150.69
Slender Wheatgrass - Native	3.00	10.95	\$6.75
Red Top	1.00	114.55	\$6.13
Reedgrass, Canadian (or Blue Joint)	0.50	51.42	\$101.55
Reedgrass, Northern - Native	0.50	51.42	\$68.96
Saltgrass, Inland	1.00	13.86	\$46.99
Timothy, Alpine - Native	1.00	29.84	\$27.07
Basin Wildrye - Trailhead	1.50	6.10	\$9.83

	Totals Seed Mix	10.50	358.87	\$440.78
pplication				
Description				Cost /Acre
Drill seeding (DRMS Cost Data)				\$88.20

Total Seed Application Cost/Acre \$88.20

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
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Το	tals Nursery Stoc	ek Cost / Acre	\$0.00

JOB TIME AND COST

	No. of Acres:		Cost /Acre:		
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,358.65	
*Selected Replanti	ng Work Items:	TILLING, SEEDIN	G,MULCHING		
Initial Job Cost:	\$10,325.74				
Reseeding Job Cost:	\$2,581.44				
Total Jak Cost	£13.007				

Reseeding Job Cost:	\$2,581.44	
Total Job Cost:	\$12,907	
Job Hours:	16.00	

REVEGETATION WORK

River Valley Resource	Permit	Action: 2015	5-Post Inspection	L	Permit/Job#	M2001090
ROJECT IDENTIFICATI	<u>NC</u>					
Task #: 08B	State: C	Colorado		А	bbreviation:	None
Date: 8/18/2015		Routt			Filename:	M090-08b
User: ACY						
Agency or organization	name: DRM	S				
ERTILIZING						
Iaterials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	l Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		Tota	Fertilizer App	lication	Cost/Acre	\$0.00
TILLING						
Description						Cost /Acre
Chisel plowing {DMG}						\$88.58
Weed control spraying (MEAN	S 31 31 16.13 3	100)				\$145.20
			Total	Tilling	Cost/Acre	\$233.78
SEEDING						
Seed Mix			Rat PL LB Act	S /	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute			3.5	0	43.39	\$7.56

Smooth Brome - Lincoln

Timothy, Alpine - Native

Drill seeding (DRMS Cost Data)

Application

Description

\$3.33

\$108.28

\$119.17

Cost /Acre

\$88.20

2.50

4.00

10.00

Totals Seed Mix

8.32

119.38

171.09

Total Seed Application Cost/Acre

\$88.20

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
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Narrowleaf	8.7	Container, 1 gallon (MEANS)	\$13.50	\$2.40	\$117.45
Willow, Sandbar	8.7	Container, 1 gallon (MEANS)	\$15.90	\$2.40	\$138.33
		Total	s Nursery Stoo	ek Cost / Acre	\$255.78

JOB TIME AND COST

		 Cost /Acre: Cost /Acre*: NURSERY,MULC	
Initial Job Cost: Reseeding Job Cost: Total Job Cost:	\$8,144.77 \$40,724		
Job Hours:	36.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATION

River Valley Resource	P	ermit Action:	2015-Post	Inspection	Permit/Job#:	M2001090
PROJECT IDENTIFICA	TION					
Task #:09B	State	: Colorado			Abbreviation:	None
Date: 8/18/2015	County	: Routt			Filename:	M090-09b
User: ACY						
Agency or organizat	tion name: I	ORMS				
EQUIPMENT TRANSPO	ORT RIG CO	<u>DST</u>				
					Shift basis:	1 nor day
				Cost I		1 per day CRG Data
Truck Tractor De	escription:	CENEDICO	N UICHW	AV TDUCV 7	DACTOD (VA I	MEGEL DOWEDEE
	comption.	GENERIC U				DIESEL POWERED
	-			400 HP (2ND	HALF, 2006)	
Truck Trailer De	-			400 HP (2ND DOSENECK,	HALF, 2006) DROP DECK EQ	UIPMENT TRAILE
	-			400 HP (2ND DOSENECK,	HALF, 2006)	
	-			400 HP (2ND DOSENECK,	HALF, 2006) DROP DECK EQ	
Truck Trailer De <u>Cost Breakdown:</u>	escription:	GENERIC FO	DLDING GO	400 HP (2ND DOSENECK, (25T, 50T,	HALF, 2006) DROP DECK EQ AND 100T)	
Truck Trailer De	escription:	GENERIC FC		400 HP (2ND DOSENECK,	HALF, 2006) DROP DECK EQ AND 100T)	
Truck Trailer Do Cost Breakdown: Available Rig Capacities	escription: 0-25 To \$16.63	GENERIC FC	DLDING GO	400 HP (2ND DOSENECK, (25T, 50T, 51+ Tons	HALF, 2006) DROP DECK EQ AND 100T)	
Truck Trailer De Cost Breakdown: Available Rig Capacities Ownership Cost/Hour	escription: 0-25 To \$16.63 \$44.38	GENERIC FC	DLDING G(50 Tons 18.37	400 HP (2ND DOSENECK, (25T, 50T, 51+ Tons \$22.33	HALF, 2006) DROP DECK EQ AND 100T)	
Truck Trailer Do <u>Cost Breakdown:</u> <u>Available Rig Capacities</u> Ownership Cost/Hour Operating Cost/Hour	escription: 0-25 To \$16.63 \$44.38 \$27.66 \$27.66 \$0.00	GENERIC FC	DLDING GO 50 Tons 18.37 46.13	400 HP (2ND DOSENECK, (25T, 50T, 51+ Tons \$22.33 \$50.07	HALF, 2006) DROP DECK EQ AND 100T)	

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 D8T - 8U	48.33	\$58.56	\$117.55	1	\$176.11	\$117.55	\$250.00
CAT 972H	28.00	\$36.70	\$117.55	4	\$617.01	\$470.20	\$500.00
Centrifugal pump - 200M, 10 in.	1.95	\$7.66	\$88.67	4	\$385.30	\$354.68	\$250.00

Subtotals: \$1,178.42 \$942.43 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$25.30	1	\$25.30	\$25.30
Drill/Broadcast Seeder with Tractor	\$136.29	1	\$136.29	\$136.29
		Subtotals:	\$161.59	\$161.59

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$5,568.75	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$92.34	_

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.57	0.57

JOB TIME AND COST

Total job time: 3.14 Hours

Total job cost: _____\$5,661

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Seconda	ary mobilize r	reclamat	tion crev	v and equ	lipment			
: River Valley Resource	:e	Permit A	Action:	2015-P	ost Inspec	tion	Permit/Job#:	M200	1090
PROJECT IDENTIF	ICATION	1							
Task #: 10B Date: 8/18/2015 User: ACY			olorado outt				Abbreviation: Filename:	None M090-	10b
Agency or orga	nization nar	ne: DRMS							
EQUIPMENT TRAN	SPORT R	UG COST							
Truck Tract	or Descripti	on: GENI	ERIC Of	N-HIGH	WAY TRI	Cost Data UCK TRA		l per day CRG Data DIESEL I	a
Truck Trail	er Descripti	on: GENE	ERIC FO	LDING	GOOSEN		OP DECK EQU	JIPMEN	TT TRAILER
Cost Breakdown:									
Available Rig Capacitie	es O	-25 Tons	26-50) Tons	51-	+ Tons			
Ownership Cost/I	Hour:	\$16.63		8.37		22.33			
Operating Cost/I		\$44.38	\$4	6.13	\$:	50.07			
Operator Cost/I		\$27.66	\$2	7.66	\$2	27.66			
Helper Cost/I		\$0.00	\$2	5.39	\$2	25.39			
Total Unit Cost/I	Hour:	\$88.67	\$11	7.55	\$1	125.45			
NON ROADABLE E	QUIPME	NT:							
Machine We Description Un	•	Owner ship Cost/hr/ unit	Haul	Rig pr/unit	Fleet	Haul Tr			DOT Permit Cost/ fleet

			5	Subtotals:	\$0.00	\$0.00	\$0.00
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

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$25.30	1	\$25.30	\$25.30
Drill/Broadcast Seeder with Tractor	\$136.29	1	\$136.29	\$136.29
		Subtotals:	\$161.59	\$161.59

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$0.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$92.34	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.57	0.57

JOB TIME AND COST

Total job time: _____ Hours

Total job cost: \$92



1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- 2001-090	Site Name:	
County	TR#	(DRMS Use only)
Permittee:		
Operator (If Other than Permittee):		
Permittee Representative:		
Please provide a brief description of	f the proposed revision:	

As defined by the Minerals Rules, a Technical Revision (TR) is: "a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan." The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered "filed for review" until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

Permit Type	Required TR Fee	Submitted (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	\bowtie
112 hard rock (not DMO)	\$175	
110d, 112d(1, 2 or 3)	\$1006	