

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M1998024, Hidden Valley Pit, SI-4

1 message

 Simmons - DNR, Leigh <leigh.simmons@state.co.us>
 Thu, Sep 1, 2022 at 1:04 PM

 To: "Burkey, Jason K (CRH Americas Materials)" <jason.burkey@na.crh.com>
 Cc: "Bartuska, Tyra L (United Companies)" <tyra.bartuska@unitedco.com>, Ben Langenfeld <benl@lewicki.biz>, Sara

 Stevenson-Benn - DNR <sara.stevenson-benn@state.co.us>
 State.co.us>

Jason,

Please find the notice of Surety Increase no. 4 (SI-4) for the Hidden Valley Pit attached.

Leigh Simmons Environmental Protection Specialist



P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203

leigh.simmons@state.co.us | https://drms.colorado.gov

On Wed, Aug 17, 2022 at 8:59 AM Burkey, Jason K (CRH Americas Materials) <jason.burkey@na.crh.com> wrote:

Leigh,

We reviewed your cost estimate and agreed to a Bond Increase based on your calculations. Please send us a Surety Increase Notice so we can process the request.

Thanks,

Jason

From: Simmons - DNR, Leigh <leigh.simmons@state.co.us> Sent: Wednesday, August 10, 2022 1:58 PM To: Burkey, Jason K (CRH Americas Materials) <jason.burkey@na.crh.com> Cc: DNR_ DRMSMinAdmin - DNR <dnr_drmsminadmin@state.co.us> Subject: [EXT] M1998024, Hidden Valley Pit, June 2022 Inspection Report

Mr. Burkey,

The report of the Division's inspection of the Hidden Valley Pit is attached. Please note that the report **does** require action on your part.

Please contact me with any questions.

Leigh Simmons

Environmental Protection Specialist



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September 1, 2022

Jason Burkey Oldcastle SW Group, Inc. dba B & B Excavating 2273 River Road Grand Junction, CO 81502-3609

Re: Hidden Valley Gravel Pit - File No. M-1998-024 Oldcastle SW Group, Inc. dba B & B Excavating Surety Increase (SI-4) Surety Increase following June 2022 Inspection

Dear Jason Burkey:

On September 1, 2022 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$242,064.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$78,426.88.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (September 1, 2022).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after October 31, 2022, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$99,000.00
Prior Liability:	\$163,637.12
Change in Liability:	\$78,426.88
Revised Liability:	\$242,064.00
Prior Permit Acreage:	183.60
Change in Permit Acreage:	0.00



Revised Permit Acreage:	183.60
Prior Affected Acreage:	140.60
Change in Affected Acreage:	0.00
Revised Affected Acreage:	140.60

If you have any questions, please contact me by telephone at (303) 866-3567 x 8121, or by email at Leigh.Simmons@state.co.us.

Sincerely,

in A

Leigh D. Simmons Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

COST SUMMARY WORK

Hidden	Valley Gravel Pit	t Per	rmit Action:	2022 Inspection	Permit/Jol	b#: <u>M1998024</u>
ROJECT	IDENTIFICA	<u>TION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	8/9/2022	County:	Eagle		Filename:	M024-000
User:	LDS					

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Demo scale and office building	DEMOLISH	1	40.00	\$2,249
02a	Highwall reduction	DOZER	1	32.44	\$8,558
03a	Rip/grade pit floor and access roads	RIPPER	1	38.10	\$10,830
04a	Distribute topsoil over 30 acre disturbed area	SCRAPER1	1	77.03	\$65,877
05a	Distirbute topsoil over disturbed area	DOZER	1	46.94	\$12,381
06a	Revegetate slopes with dry mix	REVEGE	1	16.00	\$8,271
06b	Revegetate pasture	REVEGE	1	40.00	\$66,811
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	3.60	\$2,969
		<u>SUBTC</u>	DTALS:	294.11	\$177,946

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$3,595
Performance bond:	1.05	Total =	\$1,868
Job superintendent:	147.06	Total =	\$11,048
Profit:	10.00	Total =	\$17,795
		TOTAL O & P =	\$34,306
		CONTRACT AMOUNT (direct + O & P) = $($	\$212,252

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	8.00	Total =	\$16,980
Reclamation management and/or administration:	5.81		\$12,332
CONTINGENCY:	0.00	Total =	\$0
	Т	OTAL INDIRECT COST =	\$64,118
TOTAL BO	ND AM(OUNT (direct + indirect) =	\$242,064

DEMOLITION WORK

Г	Task description:	Demo scale	and office build	ling		
Site:	Hidden Valley Gravel Pi	t	Permit Action:	2022 Inspection	Permit/.	Job#: <u>M1998024</u>
<u>'ROJE(</u>	CT IDENTIFICATION					
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	8/9/2022	County:	Eagle		Filename:	M024-01a
User:	LDS					

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale concrete slabs	15W x 20L x 2'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 50 ft. push	600.00	SF	\$2.26	\$1,356.60
Scale house	40' x 10' x 10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 50 ft. push	4,000.00	CF	\$0.21	\$844.00

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$2,200.60	location):	\$2,249.01

BULLDOZER WORK

Task description:	Highwall reducti				
Hidden Valley Grave	el Pit Peri	mit Action:	2022 Inspection	Permit/Job#:	M1998024
PROJECT IDENTIF	ICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: 8/9/2022	County:	Eagle		Filename:	024-02a
User: LDS					
Agency or orga	nization name: DR	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D8T - 8SU				
Horsepower: 310	C				
Blade Type: Sei	mi-Universal				
Attachment: NA	Ι				
Shift Basis: 1 p	er day				
	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$124.85	NA		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
		\$41.30	NA		
Operator Cost/Hour:		ϕ -1.50	INA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$263.78 \$263.78	φτ1.50			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>19,0</u>	\$263.78 FITIES 197		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>19,0</u> Swell factor: <u>1.12</u>	\$263.78 FITIES 197		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>19,0</u> Swell factor: <u>1.12</u> Loose volume: 21,4	\$263.78 FITIES 1997 24 157 LCY				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu	\$263.78 FITIES 1997 24 57 LCY me:Onsite ob	 servations/cu			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>19,0</u> Swell factor: <u>1.12</u> Loose volume: 21,4	\$263.78 FITIES 1997 24 57 LCY me:Onsite ob	 servations/cu			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel	\$263.78 CITIES 1997 24 157 LCY me: Onsite ob Cat Hand	 servations/cu			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$263.78 FITIES 997 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION	 servations/cu			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	\$263.78 FITIES 997 24 57 LCY me: Onsite ob 1 factor: Cat Hand FION 50 feet				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$263.78 FITIES 997 24 57 LCY me: Onsite ob 1 factor: Cat Hand FION 50 feet				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	\$263.78 FITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION 50 feet ction: 1,400.0 LC				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient:	\$263.78 CITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION ction: 50 feet 1,400.0 LC scription: Compa -15 %		 1t and fill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCY Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude:	\$263.78 FITIES 097 024 157 LCY me: Onsite ob 1 factor: Cat Hand FION ction: 50 feet ction: 1,400.0 LC scription: Compare -15 % 6,350 feet		 1t and fill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCY Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight:	\$263.78 CITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand TION ction: 50 feet 1,400.0 LCY scription: Compa -15 % 6,350 feet 2,900 lbs/LCY		 1t and fill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$263.78 FITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION ction: 50 feet ction: 1,400.0 LCY scription: Compation -15 % 6,350 feet 2,900 lbs/LCY Sand and gravel - 1		 1t and fill		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC: Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$263.78 FITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION ction: 50 feet ction: 1,400.0 LCY scription: Compation -15 % 6,350 feet 2,900 lbs/LCY Sand and gravel - In 57 LCY Sand and gravel - In		nbankment 0.9		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$263.78 FITIES 097 24 157 LCY me: Onsite ob 1 factor: Cat Hand FION ction: 50 feet ction: 50 feet ction: Compare -15 % 6,350 feet 2,900 lbs/LCY Sand and gravel - 1 1 Factor 0.		nbankment 0.9		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	\$263.78 CITIES 1997 24 157 LCY me: Onsite ob Cat Hand 1 factor: 50 feet Cat Hand FION ction: 50 feet 1,400.0 LC scription: Compa -15 % 6,350 feet 2,900 lbs/LCY Sand and gravel - 1 1 Factor 0. Skill: 0. 2 on feet 0.				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANI Initial Volume: 19,0 Swell factor: 1.12 Loose volume: 21,4 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCY Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	\$263.78 CITIES 1997 24 157 LCY me: Onsite ob Cat Hand 1 factor: So feet 1 factor: 50 feet ction: 50 feet ction: Comparison cti		nbankment 0.9		

Job efficience	Job efficiency:		(1 SHIFT/DAY)
Spoil pi	Spoil pile:		(FND-RF)
Push gradier	nt:	1.329	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weigl	ht:	0.793	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on:	0.4724	
Adjusted unit production:	66	1.36 LCY/hr	
Adjusted fleet production:	66	1.36 LCY/hr	
-			

Fleet size:	1 Dozer(s)
Unit cost:	\$0.399/LCY

Total job time:	32.44 Hours
Total job cost:	\$8,558

BULLDOZER RIPPING WORK

Task description	n: Rip/grade pit floor and acc	ess roads		
ite: Hidden Vall	ey Gravel Pit Permit Action:	2022 Inspection	Permit/Jol	b#: <u>M1998024</u>
PROJECT II	DENTIFICATION			
	3A State: Colorado)	Abbreviation	
	/9/2022 County: Eagle		Filename	e: 024-03a
User: L	DS			
Agenc	cy or organization name: DRMS			
HOURLY EQ	DUIPMENT COST			
Basic	c Machine: Cat D8T - 8SU	I	Horsepower:	310
Ripper A	ttachment: 3-Shank Ripper			1 per day
		I	Data Source:	(CRG)
Cost Breakdow	n:			
	_	U	tilization %	
	Ownership Cost/Hour:	\$124.85	NA	
	Operating Cost/Hour:	\$97.63	100	
	per Ownership Cost/Hour:	\$13.10	NA	
Rıj	pper Operating Cost/Hour:	\$7.30	<u>100</u>	
	Operator Cost/Hour: Total Unit Cost/Hour:	\$41.30 \$284.18	NA	
		\$284.18		
	Total Fleet Cost/Hour: \$2	84.18		
MATERIAL	QUANTITIES Se	elected estimating me	ethod: Area	
Alternate Metho		6		
		NT A	DOV	
ic: \underline{NA}	Bank Volume:	<u>NA</u> 2.00	BCY Volume: 83,893	NA BCY or
ea: <u>26.00</u>	acres Rip Depth (ft):	2.00	volulile: <u>85,895</u>	BC I OF
	Source of estimated quantity:Onsit	e observations / repo	orts	
HOURLY PF	RODUCTION			
Seismic:				
<u>o ensimer</u>	Seismic Velocity:	NA	feet/second	
A				
<u>Area:</u>	Average Ripping Depth:	2.56	feet/pass	
	Average Ripping Width:	7.08	feet/pass	
	Average Ripping Length:	500.00	feet/pass	
	Average Dozer Speed:	88.00	feet/minute	
	Average Maneuver Time:	0.25	minutes/pass	
	Production per unit area:	0.822	acres/hour	
Job Condition C	Correction Factors			
U	nadjusted Hourly Unit Production:	0.822	Acres/hr	
	Site Altitude:	6,350	feet	
	Altitude Adj:	1.00	(CAT HB)	
	Job Efficiency:	0.83	(1 shift/day)	
	Net Correction:	0.83	multiplier	
	A divisted Hourly Unit Production	n: 0.68		
	Adjusted Hourly Unit Production Adjusted Hourly Fleet Production		_ Acres/hr Acres/hr	
JOB TIME A				
Fleet size:	1 Grader(s)	Total job time:	38.11	Hours
1 leet 512e.	Grader(s)	Total job time:		110013

Task # 04A

Page 1 of 2

SCRAPER TEAM WORK

Site: Hidden Valley Gr		Permit	Action:	2022 Inspection	Perr	nit/Job#: <u>M19</u>	98024
PROJECT IDENTTask #:04ADate:8/9/202User:LDS	St		Colorado Eagle			viation: <u>None</u> ename: <u>024-(</u>	
Agency or o	rganization name:	DRM	S				
HOURLY EQUIP	MENT			COSTSI	nift basis: <u>1 per d</u>	<u>ay</u>	
	-I	raper: Dozer:	Cat 637 Cat D8				
	t Equipment -Load -Dump ntenance –Motor G -Water	Area: rader:	NA NA NA				
<u>Cost Breakdown</u> :	Scraper Worl	c Team		Support Equip			e Equipment Water Truc
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	water Truc
%Utilization-machine:	100		100	NA	NA	NA	. N
Ownership cost/hour:	\$264.49	\$	124.85	NA	NA	NA	. N
Operating cost/hour:	\$296.10		\$97.63	NA	NA	NA	. N
%Utilization-ripper:	NA		NA	NA	NA	NA	. I
Ripper own. cost/hour:	NA		\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA		\$0.00	NA	NA	NA	
Operator cost/hour:	\$30.90		\$41.30	NA	NA	NA	
Unit Subtotals:	\$591.49	\$	263.78	NA	NA	NA	
Number of Units:	1	* • • = •	1	0	0	(
Group Subtotals:	Work:	\$855	5.27	Support:	\$0.00	Maint	\$0.00
Total work team cost/	NTITIES		COV		1.000		
Initial volume: Loose volume:	56,467 56,467		CCY LCY	Swell fact	or: <u>1.000</u>		
	ce of estimated vol f estimated swell fa		Cat Hand	14" depth lbook			
HOURLY PRODU	UCTION			Scraper Bo	owl (volume) Basi		
Material weight: Material description: Rated Payload: Payload Capacity:	1,600 lbs/LCY Top Soil 81,600 pounds 51.00 LCY				Volume: 24.00 Volume: 34.00 Volume: 29.00		LCY LCY LCY LCY

<u>0.80</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6350 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	0.00	5.00	5.00	1867	0.28

Haul Time: **0.28** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	0.00	5.00	5.00	2795	0.29
				Return Time:	0.29	minutes
			Total Scrape	er team cycle time:	1.97	minutes
			Adjusted	for job conditions:	733.10	LCY/Hour
			Selected Nu	umber of Scrapers:	1	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	733.10	LCY/Hour
	Adjusted n	nultiple scrap	per team (fleet)	hourly production:	733.10	LCY/Hour
Optima	Unadjusted unit pro Il Number of Scrapers pe			LCY/Hour		
JOB TI	ME AND COST					
	size: 1	Team(s)		Total job time:	77.03	Hours

Unit cost: \$1.167 /LCY

Total job cost: \$65,877

BULLDOZER WORK

Task description:		Distribu	te topsoi	i over distu	rbed area			
Hidden Valley	Gravel	Pit	Per	mit Action:	2022 Inspection		Permit/Job#:	M1998024
PROJECT IDE	<u>NTIFI</u>	<u>CATION</u>						
Task #: 05A			State:	Colorado		A	Abbreviation:	None
Date: $\frac{8/9}{2}$	2022		County:	Eagle		1	Filename:	024-05a
User: LDS			county.	Lugie			i nenune.	021 054
Agency (or organ	ization nan	ne: DF	RMS				
HOURLY EQU	U							
			-					
Basic Machine:	-	D8T - 8SU						
Horsepower: Blade Type:	<u>310</u>	i-Universa	1					
Attachment:	NA	II-UIIIversa	1					
Shift Basis:	-	r day						
Data Source:								
		0)						
Cost Breakdown:					T T4:11	. 0/		
Ownership Cost	Hour			\$124.85	<u>Utilization</u> NA	<u>1 %</u>		
Ownership Cost/ Operating Cost/				\$124.85 \$97.63	NA 100			
Ripper own. Cost/				\$0.00	NA			
Ripper op. Cost/				\$0.00	0			
Operator Cost/				\$41.30	NA			
Total unit Cost/Ho Total Fleet Cost/H	-	\$263.78 \$263.78						
Total Fleet Cost/H	our:	\$263.78						
Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume:	our: [] [] [] [] [] [] [] [] [] [] [] [] []	\$263.78 ITIES 57						
Total Fleet Cost/H <u>MATERIAL QU</u> Initial Volume: Swell factor:	our: <u>JANT</u> <u>56,46</u> <u>1.000</u>	\$263.78 ITIES 57						
Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume:	our: <u>JANT</u> <u>56,46</u> <u>1.000</u>	\$263.78 ITIES 57						
Total Fleet Cost/H <u>MATERIAL QU</u> Initial Volume: Swell factor:	our: <u>JANTI</u> <u>56,46</u> <u>1.000</u> 56,46	\$263.78 [TIES 57 57 LCY	Division	 of Reclamati	on, Mining & Safe	ety		
Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume:	our: <u>JANTI</u> <u>56,46</u> <u>1.000</u> 56,46 d volum	\$263.78 ITIES 57 57 57 1CY ne:	Division Cat Hand		on, Mining & Safe	ety		
Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	our: <u>56,46</u> <u>1.000</u> <u>56,46</u> d volum d swell	\$263.78 [TIES 57 57 57 57 10 57 10 57 10 57 10 57 10 57 10 10 10 10 10 10 10 10 10 10			on, Mining & Safe	ety		
Total Fleet Cost/H MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO	our: <u>56,46</u> <u>1.000</u> 56,46 d volum d swell DUCT	\$263.78 [TIES 7 7 7 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Cat Hand		 on, Mining & Safe 	ety		
Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dista	our: <u>56,46</u> <u>1.000</u> <u>56,46</u> d volum d swell <u>DUCT</u> unce:	\$263.78 [TIES [7] [7] [7] [7] [7] [7] [7] [7] [7] [7]	Cat Hand	book	 on, Mining & Safe 	ety		
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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: 1,2	203.02 LCY/hr	
Adjusted fleet production: 12	203.02 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.219/LCY

Total job time:	46.94 Hours
Total job cost:	\$12,381

REVEGETATION WORK

Т	ask descrip	otion:	Revegeta	ite slope	s with dry n	nix			
Site:	Hidden V	alley Gravel l	Pit	Per	mit Action:	2022 Inspection	Permit/.	ob#:	M1998024
<u>PF</u>	ROJECT Task #:	IDENTIFIC	<u>ATION</u>	State:	Colorado		Abbreviation	: N	Jone
	Date: User:	8/9/2022 LDS	C	ounty:	Eagle		Filename	: 0	24-06a
	Age	ency or organiz	ation name	e: DR	MS				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.38	\$76.00
			Total Fertilizer Materials	*- < 0 0
			Cost/Acre	\$76.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
· · · · · · · · · · · · · · · · · · ·	Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	0.50	0.15	\$9.75
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Orchardgrass - Paiute	1.00	12.40	\$4.08
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Pubescent Wheatgrass - Luna	2.00	4.13	\$6.80
Mahogany, Mountain	0.25	0.34	\$9.20
Western Wheatgrass - Arriba	2.50	6.31	\$16.25
Timothy, Alpine - Native	0.50	14.92	\$12.13
Totals Seed Mix	10.25	51.80	\$71.34

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
1	Total Mulch Application Cost/Acre	\$135.72

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres:	4.4	Cost /Acre:	\$1,503.79	
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,503.79	
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LING,SEEDING,MU		
		LCHING			
Initial Job Cost:	\$6,616.68				
Reseeding Job Cost:	\$1,654.17				
Total Job Cost:	\$8,271				
Job Hours:	16.00				

REVEGETATION WORK

Task desc	ription:	Revegetate pastu	ire			
Site: Hidden	Valley Gravel	Pit Per	mit Action:	2022 Inspection	Permit/Job	#: <u>M1998024</u>
PROJEC'	<u>r identific</u>	ATION				
Task #	06B	State:	Colorado		Abbreviation:	None
Date	: 8/9/2022	County:	Eagle		Filename:	024-06b
User	LDS				_	
А	gency or organiz	zation name:	RMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.38	\$76.00
			Total Fertilizer Materials	*- < ••
			Cost/Acre	\$76.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Latar	2.00	24.79	\$8.35
Smooth Brome - Manchar	4.00	13.31	\$13.30
Western Wheatgrass - Arriba	6.00	15.15	\$39.00
Timothy - Climax	1.00	28.70	\$1.60
Totals Seed Mix	13.00	81.96	\$62.25

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$484.00

Total Seed Application Cost/Acre

\$484.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$135.72

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

No. of Acro Estimated Failure Ra *Selected Replanting Work Iten	te: 25%	Cost /Acre: Cost /Acre*: TILLING,SEEDING,MU	
Initial Job Cost: \$53,449.02 Reseeding Job Cost: \$13,362.26 Total Job Cost: \$66,811 Job Hours: 40.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task des	semption.		bilize reclamation		-p			
: <u>Hidd</u>	en Valley (Gravel Pit	Permit	Action:2022	Inspection]	Permit/Job#: <u>M</u>	1998024
PROJE	<u>CT IDEN</u>	TIFICATI	<u>ON</u>					
Task	#: 07A		State: Co	olorado		Abbre	eviation: None	;
Da Use			County: Ea	gle		Fi	lename: 024-0)7a
	Agency or	organization	n name: DRMS					
EQUIP	MENT TI	RANSPOR	<u>T RIG COST</u>					
					(Shift ba Cost Data Sour		
	Truck '	Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESEI	L POWERED,
						(2ND HALF,	/	
	Truck	Trailer Desc	ription: G		ING GOO	SENECK, DF	ROP DECK EQU	IPMENT
	Truck	Trailer Desc	ription: G		ING GOO		ROP DECK EQU	IPMENT
Cost Brea		Trailer Desc	ription: G		ING GOO	SENECK, DF	ROP DECK EQU	IPMENT
	akdown:		ription: G]	ING GOO TRAILER	SENECK, DF	ROP DECK EQU	IPMENT
Availab		pacities	- 		ING GOO TRAILER 51+	SENECK, DF (25T, 50T, AN	ROP DECK EQU	IPMENT
Availat C	akdown: ble Rig Ca	pacities Cost/Hour:	0-25 Tons	26-50 Tons	ING GOO TRAILER 51+ \$3	SENECK, DF (25T, 50T, AN	ROP DECK EQU	IPMENT
Availat C	akdown: ble Rig Ca Ownership (Operating (pacities Cost/Hour:	0-25 Tons \$15.25	26-50 Tons \$23.06	ING GOO TRAILER 51+ \$3 \$5	SENECK, DF (25T, 50T, AN Tons (7.58	ROP DECK EQU	IPMENT
Availat C	akdown: ble Rig Ca Ownership (Operating (Operator (pacities Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26	26-50 Tons \$23.06 \$30.83	ING GOO TRAILER 51+ \$3 \$5 \$2	SENECK, DF (25T, 50T, AN Tons (7.58 (1.41	ROP DECK EQU	IPMENT
Availat C	akdown: ble Rig Ca Ownership (Operating (Operator (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71	26-50 Tons \$23.06 \$30.83 \$27.71	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.58 (1.41 27.71	ROP DECK EQU	IPMENT
Availat C	akdown: ble Rig Ca Ownership (Operating (Operator (Helper (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.58 1.41 27.71 20.22	ROP DECK EQU	IPMENT
Availat C (akdown: ble Rig Ca Ownership (Operating (Operator (Helper (Fotal Unit (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.58 1.41 27.71 20.22	ROP DECK EQU	TPMENT
Availat C ())))))))))))))))))	akdown: ble Rig Ca Ownership (Operating (Operator (Helper (Total Unit (OADABL	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT:	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2 \$1	SENECK, DF (25T, 50T, AN 7.58 (1.41 (7.71 (0.22 (36.92)	ROP DECK EQU ND 100T)	DOT Permit
Availat C ())))))))))))))))))	akdown: ble Rig Ca Wearship (Operating (Operator (Helper (Total Unit (OADABL ie	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: EEQUIPN Weight/	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 7.58 11.41 27.71 20.22 36.92 Haul Trip	ROP DECK EQU	
Availat C ())))))))))))))))))	akdown: ble Rig Ca Wearship (Operating (Operator (Helper (Total Unit (OADABL ie	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/ Unit	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT:	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2 \$1	SENECK, DF (25T, 50T, AN 7.58 1.41 7.71 20.22 36.92 Haul Trip Cost/hr/	ROP DECK EQU ND 100T) Return Trip	DOT Permit
Availat C ()))) ()))))))))))) ()))) ()))) ()))) ())))) ()	akdown: ble Rig Ca Ownership (Operating (Operator (Helper (Fotal Unit (OADABL e btion	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/ Unit (TONS)	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 7.58 1.41 7.71 20.22 36.92 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Availat C ())))))))))))))))))	akdown: ble Rig Ca Wnership (Operating (Operator (Helper (Total Unit (OADABL te btion	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/ Unit	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	ING GOO TRAILER 51+ \$3 \$5 \$2 \$2 \$2 \$1 \$1 Fleet Size	SENECK, DF (25T, 50T, AN 7.58 1.41 7.71 20.22 36.92 Haul Trip Cost/hr/	ROP DECK EQU ND 100T) Return Trip	DOT Permit

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	\$24.30	1	\$24.30	\$24.30
		Subtotals:	\$24.30	\$24.30

EQUIPMENT HAUL DISTANCE and Time

EAGLE 20.00 50.00	miles mph
\$2,949.62	
\$19.44	_
	20.00 50.00 \$2,949.62

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.40	0.40
Return Time (Hours):	0.40	0.40
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.80	0.80

JOB TIME AND COST

Total job time: **3.60** Hours

Total job cost: \$2,969