

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

C1981022, Elk Creek Mine, SL2

3 messages

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: Doug Smith <Doug.Smith@oxbow.com>

Wed, Jun 15, 2022 at 4:07 PM

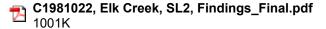
Doug,

I've attached the Findings document for SL-2. Apologies for missing this one - I don't think it was ever mailed to you, and I never emailed it.

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



Doug Smith <Doug.Smith@oxbow.com>

Thu, Jun 16, 2022 at 1:57 PM

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

I think that you said that SR2 had the latest bond calculations in it. That is the one I can't find.

Doug

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

Sent: Wednesday, June 15, 2022 4:07 PM
To: Doug Smith < Doug.Smith@OXBOW.COM>
Subject: C1981022, Elk Creek Mine, SL2

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Doug Smith
Oxbow Mining, LLC.
PO Box 535
Somerset, CO 81434

November 18, 2021

Re: Elk Creek Mine (C-1981-022) Proposed Surety Increase (SI-1)

Dear Mr. Smith,

Following discussion at the SI-1 informal conference on August 5, 2021, and the subsequent approval of MR-456, I have reviewed the entire site-wide reclamation cost estimate for the Elk Creek Mine.

I edited 5 tasks from the version completed with MT-8, details are given below:

- Task 001 (Dozer)
 - o Average push distance reduced from 400' to 200'
 - o Direct cost reduced from \$220,672 to \$102,325
- Tasks 016, 121 and 122 (Reveg)
 - O Since all areas these tasks apply to have received Phase II bond release, initial seeding costs have been removed
 - Mulching costs have been removed
 - o Re-seeding is applicable to 2% of the total acreage
 - o Herbicide is applicable to 5% of the total acreage
 - Work hours = total acreage
 - o Direct cost reduced from \$33,770 to \$517 (task 016); from \$82,858 to \$1033 (task 121); and from \$60,188 to \$1033 (task 122)
- Task 120 (Reveg)
 - Since this area has not yet received Phase II bond release, initial seeding costs have been retained
 - o Mulching costs have been removed
 - o Re-seeding is applicable to 10% of the total acreage
 - o Work hours = 2 x total acreage
 - o Direct cost reduced from \$400,136 to \$88,171

I have attached a copy of the full SI-1 cost estimate. As you will see, the total dollar amount including indirect costs is estimated at \$1,755,100.

If you concur with the attached estimate I will update the record and finalize SI-1.



Sincerely,

Leigh Simmons

Environmental Protection Specialist

COST SUMMARY WORK

Task description:		Updated sitewid	e estimate fo	r SI-1			
Site: Elk Cre	ek Mine	Pe	rmit Action:	SI1	Permit/Joh	o#: <u>C1981022</u>	
PROJECT	Γ IDENTIFIC	<u>CATION</u>					
Task #:	000	State:	Colorado		Abbreviation:	None	
Date:	11/18/2021	County:	Delta		Filename:	C022-000	
User:	LDS						

TASK LIST (DIRECT COSTS)

Agency or organization name: DRMS

Task		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
001	Backfill and Regrade Elk Creek Facilities Area	DOZER	3	90.27	\$102,325
004	Backfill and Grade Material Used to Widen Access	DOZER	3	1.53	\$1,738
	Road		ļ		
005	Backfill and Regrade Elk Creek Mine Area	DOZER	3	101.64	\$115,215
006	Move Fill Material from Elk Creek Mine to Elk	SCRAPER1	1	45.33	\$40,628
	Creek Faciliti		<u> </u>		
008	Backfill and Regrade Primary Riprap Borrow Area	DOZER	3	4.75	\$5,390
009	Backfill and Regrade Secondary Riprap Borrow	DOZER	3	12.05	\$13,654
	Area				
010	Backfill and Regrade Elk Creek Mine Rock Safety	DOZER	3	23.52	\$26,665
	Catch Bench		<u> </u>		
011	Backfill and Regrade Temporary Conveyor	DOZER	3	11.87	\$13,457
	Corridor		_		
012	Regrade Expanded Elk Creek Mine Fan Bench	DOZER	3	1.06	\$1,197
016	Re-seed Drill Pads and Roads, 20.72 acres @ 2%	REVEGE	1	20.72	\$812
	failure rate		_		
023	Spread Overburden on East Refuse Pile	SCRAPER1	1	12.91	\$11,567
034	Rip All Surface Facility Areas	RIPPER	3	29.04	\$36,310
041	Regrade Lower Power Line Access Road	EXCAVATE	1	41.01	\$7,993
042	Regrade Pond C Access Road	DOZER	3	3.85	\$4,364
050	Finish Grade All Disturbed Areas	GRADER	1	53.85	\$9,411
066	Remove Upper Hubbard Creek Sediment Pond	DOZER	1	2.99	\$1,128
067	Regrade East Bench Pond	DOZER	1	0.61	\$229
068	Excavate/Backfill Pond C Wall Area	EXCAVATE	1	1.67	\$326
069	Regrade West Valley Fill Diversion	EXCAVATE	1	1.81	\$354
071	Remove Sewage Leach Field	DOZER	1	0.61	\$229
072	Regrade Pond A	DOZER	1	0.61	\$229
073	Regrade Pond B	DOZER	1	26.02	\$9,830
075	Regrade Pond E	DOZER	1	4.39	\$1,657
077	Regrade Pond F	DOZER	1	2.26	\$853
090	Replace Topsoil from Stockpile to Previously	SCRAPER1	1	1.86	\$1,670
	Disturbed Elk A				
092	Replace Topsoil from Stockpile to East Refuse	SCRAPER1	1	5.07	\$4,545
	Area				
093	Replace Topsoil from Stockpile to West Valley Fill	SCRAPER1	1	27.58	\$24,724
	Area		<u> </u>		
094	Replace Topsoil from Stockpile to II-West Refuse	SCRAPER1	1	5.80	\$5,195
	Pile		J		

095	Replace Topsoil from Stockpile to II West Refuse Pile Road	SCRAPER1	1	1.09	\$977		
096	Replace Topsoil from Stockpile to Expanded Elk Creek Mine Fa	DOZER	3	0.13	\$152		
098	Replace Topsoil from Stockpile to Elk Creek Mine Area	SCRAPER1	1	18.89	\$16,934		
103	Replace Topsoil from Stockpile to Pond F, Ditches and Plunge	DOZER	1	2.86	\$1,079		
120	Broadcast Seed Mine Site	REVEGE	1	216.50	\$88,281		
121	Re-seed Drill Pads, MR's and TR's, 46.23 acres @ 2% failure	REVEGE	1	46.23	\$1,033		
122	Re-seed Light-Use Roads, MR's and TR's, 35.59 acres @ 2% fai	REVEGE	1	35.59	\$1,522		
130	Demolish and Remove All Mine Facilities	DEMOLISH	1	600.00	\$747,568		
131	Plug and Seal 7 Monitoring wells	BOREHOLE	1	42.00	\$11,422		
140	Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	10.00	\$25,203		
141	Mobilize/Demobilize Equipment for Pond Removal	MOBILIZE	1	7.14	\$5,880		
142	Mobilize/Demobilize Equipment for Site Maintenance	MOBILIZE	1	14.00	\$13,875		
150	Yearly site maintenance	SITEMAINT ENANCE	1	140.00	\$12,275		
	SUBTOTALS: 1669.11 \$1,367,896						

INDIRECT COSTS

OVERHEAD AND PROFIT:

2.02 Liability insurance: Total = \$27,631 Performance bond: 1.05 Total = \$14,363 834.56 Total = \$60,113 Job superintendent: Total = \$136,790 Profit: 10.00

TOTAL O & P = \$238,897

CONTRACT AMOUNT (direct + O & P) = \$1,606,793

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0 Total = \$0 Engineering work and/or contract/bid preparation: \$5.23 Total = \$84,035 Reclamation management and/or administration: 4.00 \$64,272

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$387,204

TOTAL BOND AMOUNT (direct + indirect) = \$1,755,100

Task description:	Backfill and Regrade Elk C	reek Facilities Area		
Elk Creek Mine	Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIFICA	ATION			
Task #: 001	State: Colorado		Abbreviation:	None
Date: $\frac{001}{11/18/2021}$	County: Delta		Filename:	022-001
User: LDS	County		Thename.	022 001
Agency or organiza	ntion name: DRMS			
HOURLY EQUIPMENT	Γ COST			
Basic Machine: Cat Di	10T - 10SU			
Horsepower: 574				
	Universal			
Attachment: NA		<u> </u>		
Shift Basis: 1 per d				
Data Source: (CRG)				
Cost Breakdown:				
0 11 0 2	A	<u>Utilization %</u>		
Ownership Cost/Hour:	\$169.60	NA 100		
Operating Cost/Hour:	\$166.94	100		
Ripper own. Cost/Hour:	\$0.00	NA 0		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour: \$	8377.84			
	61,133.53			
	7,100,00			
MATERIAL QUANTIT	TIES			
Initial Volume: 80,000				
Swell factor: $\frac{60,000}{1.125}$				
Loose volume: 90,000	LCY			
Source of estimated volume: Source of estimated swell fac				
HOURLY PRODUCTION	ON			
Average push distance:	200 feet			
Unadjusted hourly production	n: 946.0 LCY/hr			
Materials consistency descrip	ption: Compacted fill or e	mbankment 0.9		
	5 % 5,150 feet			
Material weight: 2	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock	, 75% Earth		
Job Condition Correction Fa	ctor	Source		
Operator Ski		(AVG.)		
Material consistence		(CAT HB))		
Dozing metho		(GEN.)		
Visibilit		(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 332.33 LCY/hr
Adjusted fleet production: 996.99 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$1.137/LCY

Total job time: 90.27 Hours
Total job cost: \$102,325

Elk Creek Mine	Permit	Action: SI	1	Permit/Job#:	C1981022
PROJECT IDENTIF	ICATION				
Task #: 004		Colorado		Abbreviation:	None
Date: 11/18/2021		Delta		Filename:	022-004
User: LDS	County	, crtu		i mename.	022 001
Agency or orga	nization name: DRMS	S			
HOURLY EQUIPMI	ENT COST				
	t D10T - 10SU				
Horsepower: 57					
	mi-Universal				
Attachment: NA	A				
	oer day				
Data Source: (C	RG)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		6169.60	NA		
Operating Cost/Hour:	9	6166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA	_	
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$377.84				
Total Fleet Cost/Hour:	\$1,133.53		<u>—</u>		
	41,100,00				
MATERIAL QUAN	TITIES				
Initial Volume: 1,60					
Swell factor: 1.16	54 LCY				
Loose volume: 1,86	14 LC I				
Source of estimated volu	me: Technical Re	evision 21			
Source of estimated swel	ll factor: Cat Handboo	ok			
HOURLY PRODUC	<u>TION</u>				
Average push distance:	125 feet				
Unadjusted hourly produ		r			
, , ,	<u> </u>		<u> </u>		
Materials consistency de	scription: Compacted	d fill or emba	ankment 0.9		
Average push gradient:	10 %	<u>.</u>			
Average site altitude:	6,100 feet				
Material weight:	2,900 lbs/LCY			<u> </u>	
Weight description:	Decomposed rock - 5	0% Rock, 50	9% Earth		
Job Condition Correction	n Factor_		Source		
Operator)	(AVG.)		
Material consist)	(CAT HB))		
Dozing me)	(GEN.)		
Visi	hility: 1.000)	(AVG)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 405.13 LCY/hr
Adjusted fleet production: 1215.39 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$0.933/LCY

Total job time: 1.53 Hours
Total job cost: \$1,738

Elk Creek Mine	Per	mit Action: _	SI1	Permit/Job#:	C1981022
PROJECT IDENTII	FICATION				
Task #: 005	State:	Colorado		Abbreviation:	None
Date: 11/18/202		Delta		Filename:	022-005
User: LDS					
Agency or orga	anization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
	at D10T - 10SU				
Horsepower: 57					
	emi-Universal		_		
Attachment: N.	A		_		
Shift Basis: 1	per day		<u></u>		
Data Source: (C	CRG)		<u> </u>		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$377.84				
Total Fleet Cost/Hour:	\$1,133.53				
Total Freet Cost/Hour.	Ψ1,133.33				
MATERIAL QUAN	TITIES				
Initial Volume: 88, Swell factor: 1.1	000				
	2, 520 LCY				
Source of estimated volu					
Source of estimated swe	ll factor: Cat Hand	book			
HOURLY PRODUC	<u>CTION</u>				
Average push distance:	200 feet				
Unadjusted hourly produ		'hr			
Materials consistency de			nbankment 0.9		
•					
Average push gradient:	0 %				
Average site altitude:	6,300 feet				
Material weight:	2,900 lbs/LCY			<u> </u>	
Weight description:	Decomposed rock	- 50% Rock,	50% Earth		
Job Condition Correctio	n Factor		Source		
Operator		750	(AVG.)		
Material consis		900	(CAT HB))		
Dozing m		000	(GEN.)		
		000	(AVG)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 336.21 LCY/hr
Adjusted fleet production: 1008.63 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$1.124/LCY

Total job time: 101.64 Hours
Total job cost: \$115,215

Task # 006

SCRAPER TEAM WORK

Task description:	Move Fill I	Material	from Ell	Creek Mine to	Elk Creek Facili	ti		
Site: Elk Creek Mine		Permi	t Action:	SI1	Per	mit/Job#:	C1981	022
PROJECT IDENT	TIFICATION							
Task #: 006 Date: 11/18/2 User: LDS			Colorado Delta			viation: _ lename: _	None 022-006	5
Agency or o	organization name:	DRM	IS					
HOURLY EQUIP	MENT_			COSTSI	hift basis: 1 per c	la <u>y</u>		
			Equipme	ent Description				
		craper:		G w/push-pull				
Sunno	rt Equipment -Loa	Dozer:	NA NA					
Suppo		p Area:	NA					
Road Ma	intenance – Motor (Grader:	NA					
	-Water	Truck:	NA					
Cost Breakdown:	Scraper Wor	rk Team Do	zer	Support Equip Load Area	oment Dump Area	Main Motor		Equipment Water Truck
%Utilization-machine:	100		NA	NA	NA		NA	NA
Ownership cost/hour:	\$223.48		NA	NA	NA		NA	NA
Operating cost/hour:	\$193.77		NA	NA	NA		NA	NA
%Utilization-ripper:	NA		NA	NA	NA		NA	NA
Ripper own. cost/hour:	NA		NA	NA	NA		NA	NA
Ripper op. cost/hour:	NA		NA	NA	NA		NA	NA
Operator cost/hour:	\$30.90		NA	NA	NA		NA	NA
Unit Subtotals:	\$448.15		NA	NA	NA		NA	NA
Number of Units:	2		0	0	0		0	0
Group Subtotals:	Work:	\$890	5.30	Support:	\$0.00		Maint:	\$0.00
Total work team cost MATERIAL QUA								
			CCV	G . 11 C	1 105			
Initial volume: Loose volume:	22,000 24,750		CCY LCY	Swell fact	or: 1.125			
Sou	rce of estimated vo	_		Estimate				
		· -						
HOURLY PRODU	<u>UCTION</u>			Scraper Bo	owl (volume) Bas	is:		
Material weight:	2,650 lbs/LCY				Volume: 24.00		LC	TV
Material description:	Decomposed rock	k - 25%]	Rock,	Heaped '				CY
Rated Payload: Payload Capacity:	81,600 pounds 30.79 LCY			Average ` Adjusted C				CY CY

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('\77	CIA	111	me:
\sim y	-	11.	m.

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{1.00} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.60} \text{ Minutes} \\ \end{array}$

Job Condition Correction: Site Altitude: 6200 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity (fpm)	Travel Time
		(%)	(%)	(%)		(min)
1	2800.00	-10.00	5.00	-5.00	2972	0.99

Haul Time: **0.99** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2800.00	10.00	5.00	15.00	1047	2.70

Return Time: 2.70 Total Scraper team cycle time: 5.29 minutes Adjusted for job conditions: 546.01 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 546.01 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 546.01 LCY/Hour

Unadjusted unit production/hour:	657.84	LCY/Hou
Optimal Number of Scrapers per push dozer:		_

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	45.33	Hours
Unit cost:	\$1.642	/LCY	Total job cost:	\$40,628	

Task description:	Backfill and Reg	rade Prima	ry Riprap Borrow Area		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	<u>FICATION</u>				
Task #: 008	State:	Colorado		Abbreviation:	None
Date: 11/18/202		Delta		Filename:	022-008
User: LDS	<u> </u>	Denu		i ilonamo.	022 000
Agency or orga	inization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
	at D10T - 10SU		<u> </u>		
Horsepower: 57					
Blade Type: Se Attachment: NA	mi-Universal				
	er day				
1	RG)		<u> </u>		
	<i>j</i>		<u> </u>		
Cost Breakdown:			TT.'11' .' 0'		
Ownership Cost/Hour:		\$169.60	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$169.60	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
-			1111		
Total unit Cost/Hour:	\$377.84				
Total Fleet Cost/Hour:	\$1,133.53				
MATERIAL QUAN	FITIES				
Initial Volume: 1,50					
Swell factor: $\frac{1,30}{1.10}$		_			
	48 LCY				
					
Source of estimated volu Source of estimated swe		hook			
source of estimated swe.	ii ractor. <u>Cat Hand</u>	JOOK			
HUIDI A DDUDIO	TION				
HOURLY PRODUC	TION				
Average push distance:	200 feet				
Unadjusted hourly produ	ection: 946.0 LCY	/hr			
Materials consistency de	scription: Partly	consolidated	stockpile 1.1		
Average push gradient:	30 %				
Average site altitude:	6,400 feet				
	-,				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Decomposed rock	- 50% Rock	, 50% Earth		
Job Condition Correction	n Factor		Source		
Operator		750	(AVG.)		
Material consis	tency: 1.	100	(CAT HB)		
Dozing me		000	(GEN.)		
Visi	bility: 1.	000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 122.51 LCY/hr
Adjusted fleet production: 367.53 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$3.084/LCY

Total job time: 4.75 Hours
Total job cost: \$5,390

Task description:		Backfill an	iu Regraue Secon	dary Riprap Borrow Ai	·Ca	
Elk Creek Mine	!		Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	<u> TIFI</u> (CATION				
Task #: 009			State: Colorado		Abbreviation:	None
	3/2021		unty: Delta		Filename:	022-009
User: LDS			<u> </u>		-	
Agency or	organi	zation name:	DRMS			
HOURLY EQUI	PMEN	NT COST				
Basic Machine:		D10T - 10SU	ſ			
Horsepower:	574					
Blade Type:		i-Universal		<u> </u>		
Attachment:	NA			<u> </u>		
Shift Basis: Data Source:	1 per			<u>—</u>		
	(CRO	J)				
Cost Breakdown:						
O	T		¢1.60.60	<u>Utilization %</u>		
Ownership Cost/H	_		\$169.60 \$166.94	NA 100		
Operating Cost/H Ripper own. Cost/H			\$166.94	100 NA		
Ripper own. Cost/H			\$0.00	0 NA		
rapper up. Cust/fi						
Operator Cost/L	_		\$41.30	NI A		
Operator Cost/Hou Total unit Cost/Hou Total Fleet Cost/Hou	Iour: _ ır: _	\$377.84 \$1,133.53	\$41.30	NA NA		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume:	JANTI 3,800	\$1,133.53 TIES	\$41.30	NA NA		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU	Hour:	\$1,133.53 TIES	\$41.30	NA		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	JANTI 3,800 1.165 4,427	\$1,133.53 TIES LCY e: Ma	ap 18 t Handbook	NA NA		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	JANTI 3,800 1.165 4,427 I volum I swell f	#1,133.53 TIES LCY e: Ma Ca	ap 18	NA NA		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	JANTI 3,800 1.165 4,427 I volum I swell f	#1,133.53 TIES LCY e: Ma factor: Ca ION 200 f	ap 18 t Handbook	NA NA		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	JANTI 3,800 1.165 4,427 I volum I swell f	#1,133.53 TIES LCY e:	ap 18 t Handbook			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p	JANTI 3,800 1.165 4,427 I volum I swell f DUCTI nce: product cy descreent:	#1,133.53 TIES LCY e:	ap 18 t Handbook Seet D LCY/hr			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly published	JANTI 3,800 1.165 4,427 I volum I swell f DUCTI nce: product cy descreent:	#1,133.53 TIES LCY e:	ap 18 t Handbook Seet O LCY/hr Partly consolidated			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly published Materials consistence Average push gradi Average site altitud	JANTI 3,800 1.165 4,427 I volum I swell f DUCTI nce: product cy desc. ent: e:	#1,133.53 TIES LCY e:	ap 18 t Handbook Seet O LCY/hr Partly consolidated	stockpile 1.1		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corrections	JANTI 3,800 1.165 4,427 I volum I swell f DUCT nce: product cy desc. ent: e:	#1,133.53 TIES LCY e:	reet O LCY/hr Partly consolidated CY d rock - 50% Rock	stockpile 1.1		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corrections	JANTI 3,800 1.165 4,427 I volum I swell f DUCTI nce: product cy descrete: e: ection Ferator Sl	#1,133.53 TIES LCY e:	Partly consolidated CY d rock - 50% Rock 0.750	stockpile 1.1 stockpile 1.1 stockpile 1.1 Source (AVG.)		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Fleet	JANTI 3,800 1.165 4,427 I volum I swell f DUCTI nce: product cy descrete: e: ection Ferator Sl	#1,133.53 TIES LCY e:	reet O LCY/hr Partly consolidated CY d rock - 50% Rock	stockpile 1.1		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 122.51 LCY/hr
Adjusted fleet production: 367.53 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$3.084/LCY

Total job time: 12.05 Hours
Total job cost: \$13,654

Elk Creek Mine	Pern	nit Action: SI	[1	Permit/Job#:	C1981022
PROJECT IDENTIF	FICATION				
Task #: 010	State:	Colorado		Abbreviation:	None
Date: 11/18/202		Delta		Filename:	022-010
User: LDS	County.	Delta		i nename.	022 010
Agency or orga	anization name: DR	MS			
HOURLY EQUIPM	ENT COST				
	at D10T - 10SU				
Horsepower: 57					
	mi-Universal				
Attachment: N	A				
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$377.84				
Total Fleet Cost/Hour:	\$1,133.53		<u> </u>		
MATERIAL QUAN	TITIES				
	<u></u>				
Initial Volume: 11, Swell factor: 1.10		<u> </u>			
	932 LCY	<u> </u>			
Loose volume. 129	932 LC 1	_			
Source of estimated volu					
Source of estimated swe	ll factor: Cat Handb	ook	<u> </u>		
HOURLY PRODUC	<u>'TION</u>				
Average push distance:	200 feet				
Unadjusted hourly produ		nr	<u> </u>		
Materials consistency de		eted fill or emba	ankment 0.9		
·		III or omo			
Average push gradient:	20 %				
Average site altitude:	6,700 feet				
36	2 000 11 7 277				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock -	50% Rock, 50	% Earth		
Job Condition Correction			Source		
Operator		750	(AVG.)		
Material consis		000	(CAT HB))		
Dozing m		000	(GEN.)		
Vici	ibility: 1 (000	(AVG)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 183.24 LCY/hr
Adjusted fleet production: 549.72 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$2.062/LCY

Total job time: 23.52 Hours Total job cost: \$26,665

Task description:	Backfill ar	nd Regrade Tempo	orary Conveyor Corrid	or	
e: Elk Creek Mine		Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	TIFICATION				
Task #: 011		State: Colorado		Abbreviation:	None
Date: 11/18/		ounty: Delta		Filename:	022-011
User: LDS				=	
Agency or	organization name	: DRMS			
HOURLY EQUI	PMENT COST				
Basic Machine:	Cat D10T - 10SU	J			
Horsepower:	574		<u> </u>		
Blade Type:	Semi-Universal				
Attachment:	NA 1 man dans		<u> </u>		
Shift Basis: Data Source:	1 per day		<u></u>		
-	(CRG)				
Cost Breakdown:			ı		
o ~		A4	<u>Utilization %</u>		
Ownership Cost/He		\$169.60	NA 100		
Operating Cost/He		\$166.94	100		
Ripper own. Cost/H		\$0.00 \$0.00	NA 0		
Ripper op. Cost/H					
Operator Cost/He	our:	\$41.30	NA		
MATERIAL QU. Initial Volume: Swell factor:	7,400 1.165				
Loose volume:	8,621 LCY				
Source of estimated Source of estimated		perator Estimate at Handbook			
HOURLY PROD	UCTION				
Average push distan Unadjusted hourly p		feet 3 LCY/hr			
Materials consistence	y description:	Compacted fill or e	mbankment 0.9		
Average push gradie Average site altitude					
Material weight:	2,900 lbs/L	CY			
Weight description:	Decompose	ed rock - 50% Rock	, 50% Earth		
Job Condition Corre			Source		
	rator Skill:	0.750	(AVG.)		
Material co		0.900	(CAT HB))		
	ig method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 242.05 LCY/hr
Adjusted fleet production: 726.15 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$1.561/LCY

Total job time: 11.87 Hours
Total job cost: \$13,457

Elk Creek Mine	Permit Action	n: SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	ICATION			
Task #: 012 Date: 11/18/2021	State: Colorac	10	Abbreviation:	None 022-012
Date: 11/18/2021 User: LDS	County: Delta		Filename:	022-012
Agency or organ	nization name: DRMS			
rigency of organ	inzation name. Drais			
HOURLY EQUIPME	ENT COST			
	D10T - 10SU			
Horsepower: 574				
	mi-Universal			
Attachment: NA				
	er day			
	RG)			
Cost Breakdown:				
0 11 7 ==	. .	<u>Utilization %</u>		
Ownership Cost/Hour:	\$169.60			
Operating Cost/Hour:	\$166.9			
Ripper own. Cost/Hour:	\$0.0			
Ripper op. Cost/Hour:	\$0.0			
Operator Cost/Hour:	\$41.3	0 NA		
Total unit Cost/Hour:	\$377.84			
Total Fleet Cost/Hour:	\$1,133.53			
Total Tiect Cost/Hour.	Ψ1,133.33			
MATERIAL QUANT	TTIFS			
Initial Volume: 1,50				
Swell factor: 1.16				
Loose volume: 1,74	8 LCY			
Source of estimated volume	me: Operator Estimate			
Source of estimated swell	. <u> </u>			
HOURLY PRODUCT	ΓΙΟΝ			
Average push distance:	100 feet			
Unadjusted hourly produc	ction: 1,718.9 LCY/hr			
Materials consistency des	scription: Compacted fill o	r embankment 0.9		
Average push gradient:	5 %			
Average site altitude:	7,500 feet			
Material weight:	2,900 lbs/LCY			
Weight description:	Decomposed rock - 50% Ro	ock, 50% Earth		
Job Condition Correction	Factor	Source		
Operator		(AVG.)		
Material consist		(CAT HB))		
Dozing me		(GEN.)		
	pility: 1 000	(AVG)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 551.60 LCY/hr
Adjusted fleet production: 1654.8 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$0.685/LCY

Total job time: 1.06 Hours
Total job cost: \$1,197

REVEGETATION WORK

Task description: Re	-				- C1001022	
EIK Creek Wille	Permit Action: SI1			Perim/Joon	t: <u>C1981022</u>	
ROJECT IDENTIFICAT	<u>ION</u>					
Task #: 016	State: Cole	orado		Abl	oreviation:	None
Date: 11/18/2021	County: Delt	ta				022-016
User: LDS	-					
Agency or organization	n name: DRMS					
PEDTH IZING						
ERTILIZING						
Iaterials		Units /				
Description		Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
					al Fertilizer	
				100	al Fertilizer Materials	
					Cost/Acre	\$0.00
pplication Description						Cost /Acre
						\$
		Tota	Fertilizer	Application	n Cost/Acre	\$0.00
TILLING						
Description						Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)					\$290.40	
1,0						
			Т	otal Tillin	g Cost/Acre	\$290.40
EEDING						
				Rate –		
				Nate –		Cost /Acre

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$17.59
Indian Ricegrass - Native	0.50	1.62	\$3.25
Mountain Brome - Bromar	2.00	3.21	\$7.60
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Coreopsis, Lance Leafed	0.15	3.84	\$4.28
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Prairie Junegrass	0.25	13.29	\$6.50
Penstemon, Rocky Mountain	0.15	2.35	\$4.43
Yarrow, White	0.05	3.18	\$2.00
	· · · · · · · · · · · · · · · · · · ·		

\$267.22

	Totals Seed Mix	8.10	69.28	\$71.25
Application				
Description				Cost /Acre
Broadcast seeding [DMG]				\$267.22

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

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
					\$
Totals Nursery Stock Cost / Acre					

JOB TIME AND COST

No. of Acres: 0.5 Cost /Acre: \$1,033.47 Estimated Failure Rate: 0% Cost /Acre*: \$0.00

*Selected Replanting Work Items: NONE

Initial Job Cost: \$516.74

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: 20.72

SCRAPER TEAM WORK

Task description:	Spread Ov	erburde	n on East	Refuse Pile			
Site: Elk Creek Mine		Permi	t Action:	SI1	Per	mit/Job#: <u>C1981</u>	.022
PROJECT IDENT Task #: 023 Date: 11/18/2 User: LDS			Colorado Delta			viation: None ename: 022-02	3
Agency or o	organization name:	DRM	IS				
HOURLY EQUIP	<u>MENT</u>			COSTS	hift basis: 1 per d	<u>ay</u>	
	rt Equipment -Loa -Dum intenance –Motor (p Area: Grader:	Cat 637 NA NA NA NA	ent Description G w/push-pull			
Cost Breakdown:	Scraper Wo		NA	Support Equi		Maintenance	Equipment Water Truck
	Scraper	Do		Load Area	Dump Area	Motor Grader	
%Utilization-machine:	100		NA	NA	NA	NA	NA
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	NA
Operating cost/hour:	\$193.77		NA	NA	NA	NA	NA
%Utilization-ripper:	NA		NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA		NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA		NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90		NA	NA	NA	NA	NA
Unit Subtotals:	\$448.15		NA	NA O	NA	NA	NA
Number of Units: Group Subtotals:	Work:	\$890	0	<u>0</u>	\$0.00	0 Maint:	\$0.00
Total work team cost	/hour: \$896.30	\$650	5.30	Support:	\$0.00	ivianit.	\$0.00
MATERIAL QUA Initial volume: Loose volume:	14,100 15,863		CCY LCY	Swell fac	tor: 1.125		
	rce of estimated vo	_		of Reclamation,	Mining & Safety		
HOURLY PROD	<u>UCTION</u>						
				<u> </u>	owl (volume) Bas	<u> </u>	
Material weight: Material description:	2,650 lbs/LCY Decomposed roc 75% Earth	k - 25%]	Rock,		Volume: 24.00 Volume: 34.00		CY CY
Rated Payload: Payload Capacity:	81,600 pounds 30.79 LCY			Average Adjusted (CY CY

\sim	4			• •	
/ 'T	10	Α		'ime:	
	/ U	·	1	m.	

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{1.00} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.60} \text{ Minutes} \\ \end{array}$

Job Condition Correction: Site Altitude: 6200 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.40

Haul Time: **0.40** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.35

Return Time: **0.35** minutes Total Scraper team cycle time: 2.35 minutes 1,229.11 Adjusted for job conditions: LCY/Hour Selected Number of Scrapers: Scraper(s) Adjusted single scraper team (unit) hourly production: 1,229.11 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,229.11 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 12.91
 Hours

 Unit cost:
 \$0.729
 /LCY
 Total job cost:
 \$11,567

BULLDOZER RIPPING WORK

	Task description	: Rip	All Surface Facility Area	S				
Site	: Elk Creek Mi	ne	Permit Action:	SI1	P	Permit/Job#	: <u>C19810</u>)22
	PROJECT ID	ENTIFICATI	<u>ON</u>					
	Task #: 034	4	State: Colorado		Abb	reviation:	None	
		/18/2021	County: Delta			Filename:	022-034	
	User: LD	OS	•					
	Agency	or organization	name: DRMS					
	HOURLY EQ	UIPMENT C	<u>OST</u>					
	Basic	Machine: Ca	t D10T - 10SU		Horsepower:		574	
	Ripper Att		Shank Ripper		Shift Basis:	1	per day	
					Data Source:	(CRG)	
	Cost Breakdown	<u>:</u>						
					Utilization %			
		Ownership C		\$169.60	NA	_		
	ъ.	Operating C		\$166.94	100	_		
		er Ownership C per Operating C		\$25.19 \$13.74	NA 100	=		
	Kip	per Operating C Operator C		\$41.30	100 NA	=		
		Total Unit C		\$416.77	1471	_		
		Total Fleet C	ost/Hour: \$1,25	0.32				
	MATERIAL (.1 1 A			
			Sele	cted estimating	g method: Are	a		
	Alternate Method	ds:						
Seismic:	NA		Bank Volume:	NA	BCY _		NA	
Area:	70.80	acres	Rip Depth (ft):	2.00	Volume:	228,448		BCY or CCY
		Source of esti	mated quantity: Page 2.	05-20				
	HOURLY PRO	ODUCTION						
	Seismic:							
	<u>Scisific.</u>		Seismic Velocity:	NA	feet/sec	cond		
	Aran		•					
	Area:	Avera	ge Ripping Depth:	2.00	feet/pas	88		
			ge Ripping Width:	8.67	feet/pas			
			Ripping Length:	300.00	feet/pas			
			age Dozer Speed:	88.00	feet/mi	nute		
		_	Maneuver Time:	0.25	minute	_		
		Produc	tion per unit area:	0.979	acres/h	our		
	Job Condition Co	orrection Factor	<u>3</u>					
	Ur	nadjusted Hourly	Unit Production:	0.979	Acres/l	ır		
			Site Altitude:	6,200	feet			
			Altitude Adj:	1.00	(CAT I			
			Job Efficiency:	0.83	(1 shift	•		
			Net Correction:	0.83	multipl	ier		
			Hourly Unit Production: Hourly Fleet Production:	0.81 2.44	Acres/hr Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	3	_ Grader(s)	Total job tin	ne:	29.04	Не	ours
	Unit cost:	\$512.847	Per acre	Total job co	ost: \$	36,310		

HYDRAULIC EXCAVATOR WORK

Task description:	Regrade Lower	Power Line	Access Road			
Elk Creek Mine	Pe	rmit Action:	SI1	Peri	mit/Job#:	C1981022
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 041	State:	Colorado		Abbrey	viation:	None
Date: 11/18/2021					ename:	022-041
User: LDS	County.	Dena			chame.	022 041
Agency or orga	nization name: D	RMS				
HOURLY EQUIPME						
Basic Machine:	Cat 336D L 10'-6	" Stick	H	lorsepower:		268
Attachment 1:	ROPS Cab	Buck		eight (MT):		9.30
-	HOLD CUC			Shift Basis:		er day
				ata Source:		CRG)
Cost Breakdown:				_		 _
Cost Dicardown.		Ī	Utilization %			
Ownership Cost/	Hour: \$83	.42	NA			
Operating Cost/			100			
Operator Cost/			NA			
Total Unit Cost/	Hour: \$194	4.88				
Total Fleet Cost	/Hour: \$19	4.88				
MATERIAL QUANT						
	,500	CCY	Swell factor	: 1.125		
	,438	- LCY	5 well factor	. 1.123		
HOURLY PRODUC' Excavator Cycle Time (le		oaded, dump l	oucket, swing empty	<u>'):</u>		
		Basic Job C	Condition Description	n: AVERAC	Æ	
	Secondary Job C		nin Basic Description			
	•		Cycle Time Valu			minutes
Load Bucket Capacity			-			
]	Bucket Size Cla	iss: Sn	nall
Rated Capacity	y: 1.56	LCY (he	aped)			
Bucket Fill Factor			ugh clay (80% - 90%	6) 0.850		
Adjusted Capacity	y:1.33	LCY				
Job Condition Correction	Factors		Site A	ltitude: <u>6400</u> fe	eet	
		Source	;			
Altitude Adj:	1.00	(CAT H				
Job Efficiency:	0.83	(1 shift/da				
Net Correction:	0.83	multiplie	r			
Una	adjusted Hourly Uni	t Production:	247.85	LCY/Hour		
	Adjusted Hourly Uni			LCY/Hour		
A	djusted Hourly Flee	t Production:	205.72	LCY/Hour		
JOB TIME AND CO	<u>ST</u>					
Fleet size:	l Excava	tor T	otal job time:	41.02		Hours
				<u> </u>		
Unit cost: \$0.	947 /LCY		Total job cost:	\$7,993		

Task description:	Regr	Regrade Pond C Access Road						
: Elk Creek Mine		Per	mit Action:	SI1		Permit/Job#:	C1981022	
PROJECT IDEN	TIFICATION	<u>ON</u>						
Task #: 042		State:	Colorado			Abbreviation:	None	
Date: 11/18	/2021	County:	Delta			Filename:	022-042	
User: LDS	72021	County.	Dena			T Hellume.	022 0 12	
Agency or	organization	name: DI	RMS					
HOURLY EQUI	PMENT CO	<u>OST</u>						
Basic Machine:	Cat D10T -	10SU						
Horsepower:	574							
Blade Type:	Semi-Unive	ersal						
Attachment:	NA							
Shift Basis:	1 per day							
Data Source:	(CRG)							
Cost Breakdown:								
				Ţ	<u> Itilization %</u>			
Ownership Cost/H	lour:		\$169.60		NA			
Operating Cost/H			\$166.94		100			
Ripper own. Cost/H			\$0.00		NA			
Ripper op. Cost/H			\$0.00		0			
Operator Cost/H	lour:		\$41.30		NA			
MATERIAL QU Initial Volume: Swell factor:	3,333 1.165							
Loose volume:	3,883 LCY		<u> </u>					
Source of estimated Source of estimated	swell factor:	Division Cat Hand						
HOURLY PROI	<u>OUCTION</u>							
Average push distar		200 feet						
Unadjusted hourly p	oroduction:	946.0 LCY	/hr					
Materials consistend	cy description	: Compa	cted fill or e	mbankme	ent 0.9			
Average push gradic Average site altitude		feet						
Material weight:	2,900	lbs/LCY				_		
Weight description:	Decor	nposed rock	- 50% Rock	, 50% Ea	rth			
Job Condition Corre	ection Factor	-		, 50% Ea	Source			
Job Condition Corre	ection Factor rator Skill:	0.	- 50% Rock 750 900	, 50% Ea	Source (AVG.)			
Job Condition Corre Ope Material co	ection Factor rator Skill:	0.	.750	, 50% Ea	Source			

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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 336.21 LCY/hr
Adjusted fleet production: 1008.63 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$1.124/LCY

Total job time: 3.85 Hours
Total job cost: \$4,364

MOTOR GRADER WORK

ion: None 022-050	
250	
259	
1 per day	
(CRG)	
acres	
1.5	
Hours	

Task description:	Remo	ove Upper I	Upper Hubbard Creek Sediment Pond					
Elk Creek Mine		Per	mit Action:	SI1		Permit/Job#:	C1981022	
PROJECT IDEN	TIFICATIO	<u>)N</u>						
Task #: 066		State:	Colorado			Abbreviation:	None	
Date: 11/18	/2021	County:	Delta			Filename:	022-066	
User: LDS						-		
	organization i	name: DF	RMS					
HOURLY EQUI								
Basic Machine:	Cat D10T -							
Horsepower:	574	1030						
Blade Type:	Semi-Unive	rsal		<u> </u>				
Attachment:	NA	1541						
Shift Basis:	1 per day			 ;				
Data Source:	(CRG)			 ;				
	<u> </u>			<u> </u>				
Cost Breakdown:				T 7/-11	tion 0/			
Ownership Cost/H	our		\$169.60	<u>Utiliza</u> N				
Operating Cost/H			\$166.94	10				
Ripper own. Cost/H			\$0.00	N.				
Ripper op. Cost/H			\$0.00	(<u> </u>		
Operator Cost/H			\$41.30					
Operator Cost/11	our		\$41.50	N	A			
Total unit Cost/Hou	r: \$377.8	34						
Total Fleet Cost/Ho	ur: \$377.8	R4						
MATERIAL QU	<u>ANTITIES</u>							
Initial Volume:	1,968							
Swell factor:	1.165							
Loose volume:	2,293 LCY							
Source of estimated Source of estimated		TR-05; A	ppendix K book					
HOURLY PROD	<u>UCTION</u>							
Average push distan	ice:	50 feet						
Unadjusted hourly p	oroduction:	2,748.7 LC	Y/hr					
Materials consistence	cy description:	Compa	cted fill or e	mbankment 0.9)			
Average push gradie Average site altitude		feet						
Material weight:	2,900	lbs/LCY				-		
Weight description:	Decon	nposed rock	- 50% Rock	, 50% Earth				
Job Condition Corre		_	750		Source			
	rator Skill:		750		AVG.)			
Material co			900		AT HB))			
	ng method:		000		(GEN.)			
	Visibility:	1.	.000	((AVG.)			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 767.99 LCY/hr
Adjusted fleet production: 767.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.492/LCY

Total job time: 2.99 Hours
Total job cost: \$1,128

Task description:	Regi	Regrade East Bench Pond						
Elk Creek Mine		Peri	mit Action:	SI1	Permit/Job#:	C1981022		
PROJECT IDEN	TIFICATI	<u>ON</u>						
Task #: 067		State:	Colorado		Abbreviation:	None		
Date: $\frac{1007}{11/18}$	2021	County:	Delta		Filename:	022-067		
User: LDS	2021	County.	Dena			022 007		
		DD	N 40					
Agency or	organization	name: DR	RMS					
HOURLY EQUI	PMENT CO	<u>OST</u>						
Basic Machine:	Cat D10T -	10SU						
Horsepower:	574	1						
Blade Type: Attachment:	Semi-Univ	ersal						
Shift Basis:	1 per day							
Data Source:	(CRG)							
-	(CNO)			<u>—</u>				
Cost Breakdown:								
O			¢1.co.co	<u>Utilization %</u>	<u>)</u>			
Ownership Cost/H			\$169.60	NA 100				
Operating Cost/He			\$166.94	100 NA				
Ripper own. Cost/He Ripper op. Cost/He			\$0.00 \$0.00	NA 0				
			\$41.30					
Operator Cost/He	our.		\$41.50	NA				
Total unit Cost/Hour	r: \$377.	84						
Total Fleet Cost/Hor	ar: \$377.	Q/I						
MATERIAL QU. Initial Volume: Swell factor:	400 1.165		<u> </u>					
Loose volume: _	466 LCY		_					
Source of estimated Source of estimated		Map 15 Cat Hand	book					
HOURLY PROD	UCTION							
Average push distan		50 feet						
Unadjusted hourly p		2,748.7 LC	Y/hr					
Materials consistence	y description	: Compa	cted fill or e	mbankment 0.9				
Average push gradie Average site altitude		feet						
-								
Material weight:	2,900	lbs/LCY						
Weight description:	Deco	mposed rock	- 50% Rock	t, 50% Earth				
Job Condition Corre		0	750	Source				
	rator Skill:		750	(AVG.				
Material co	nsistency: _ g method:		900	(CAT H				
				(GEN.				
	Visibility: $_$	1.	000	(AVG	· <i>)</i>			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 767.99 LCY/hr
Adjusted fleet production: 767.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.492/LCY

Total job time: 0.61 Hours
Total job cost: \$229

HYDRAULIC EXCAVATOR WORK

Task description:	Excava	ate/Backfil	II Pona C v	vali Area			
Elk Creek Mine		Peri	mit Action:	SI1	Pern	nit/Job#: <u>C1981</u> ()22
PROJECT IDENT	IFICATIO	<u>N</u>					
Task #: 068		State:	Colorado		Abbrev	iation: None	
Date: 11/18/20	02.1	County:	Delta			ename: 022-068	<u> </u>
User: LDS	521	County.	Dena			Marie. 022 000	<u>'</u>
Agency or or	ganization n	ame: DR	RMS				
HOURLY EQUIPM							
Basic Machine:		DL 10'-6"	Stick		Horsepower:	268	
Attachment 1:			Buck		Weight (MT):	29.30	
7 tttaenment 1.	. Korb ca	uo			Shift Basis:	1 per day	
					Data Source:	(CRG)	
Cost Propledovini						(5555)	
Cost Breakdown:			1	Utilization %			
Ownership Co	st/Hour	\$83.4	42.	NA			
Operating Co		\$74.1		100			
Operator Co		\$37.3		NA			
Total Unit Co		\$194.		1111			
Total Fleet Co		\$194					
Total Fleet Co	ost/nour:	\$194	.00				
MATERIAL QUA							
Initial volume:	275		_ CCY	Swell fac	etor: 1.250		
Loose volume:	344		LCY				
			_				
	ce of estimate				Mining & Safety		
Source of	f estimated sv				Mining & Safety		
	f estimated sv				Mining & Safety		
Source of	f estimated sy ICTION	well factor:	Cat Han	dbook			
Source of HOURLY PRODU	f estimated sy ICTION	well factor: t, swing loa	Cat Han	dbook bucket, swing em	npty):	F.	
Source of HOURLY PRODU	f estimated sy ICTION (load bucket	well factor: t, swing loa	Cat Han	dbook bucket, swing em Condition Descrip	npty): otion: AVERAG		
Source of HOURLY PRODU	f estimated sy ICTION (load bucket	well factor: t, swing loa	Cat Han	dbook bucket, swing em Condition Descrip hin Basic Descrip	npty): otion: AVERAG otion: AVERAG	Е	
Source of HOURLY PRODU Excavator Cycle Time	f estimated sy ICTION c (load bucket Second	well factor: t, swing loa	Cat Han	dbook bucket, swing em Condition Descrip	npty): otion: AVERAG otion: AVERAG		
Source of HOURLY PRODU	f estimated sy ICTION c (load bucket Second	well factor: t, swing loa	Cat Han	dbook bucket, swing em Condition Descrip hin Basic Descrip	npty): otion: AVERAG otion: AVERAG alue: 0.321	E minutes	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity	f estimated sy CTION c (load bucket Second	well factor: t, swing loa dary Job Co	Cat Han aded, dump Basic Job (ondition wit	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	npty): otion: AVERAG otion: AVERAG	E minutes	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac	f estimated sy CTION (load bucket Second	well factor: t, swing loa dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped)	npty): otion: AVERAG otion: AVERAG 'alue: 0.321 Bucket Size Cla	E minutes	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Bucket Fill Fac	f estimated sy ICTION c (load bucket Second	well factor: t, swing load dary Job Co 1.56 0.850	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	npty): otion: AVERAG otion: AVERAG 'alue: 0.321 Bucket Size Cla	E minutes	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Bucket Fill Fac Adjusted Capacity	CTION Cload bucket Second City: City: City:	well factor: t, swing loa dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac	CTION Cload bucket Second City: City: City:	well factor: t, swing load dary Job Co 1.56 0.850	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9	npty): otion: AVERAG otion: AVERAG 'alue: 0.321 Bucket Size Cla	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correct	Second city: city: city: city: city: city: city: city: city:	well factor: t, swing load dary Job Co 1.56 0.850 1.33	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correct Altitude Adj:	Second city: city: city: city: city: city: 1.0	well factor: t, swing load dary Job Co 1.56 0.850 1.33	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Bucket Fill Fac Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity	Second city: city	1.56 0.850 1.33	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay)	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correct Altitude Adj:	Second city: city	1.56 0.850 1.33	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay)	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity Net Corrections	Second city: city	well factor: t, swing load dary Job Co 1.56 0.850 1.33	Cat Han aded, dump Basic Job Condition wit LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r	npty): otion: AVERAG otion: AVERAG olion: Olion: AVERAG olion: Olion: Olion average of the state of the stat	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity Net Corrections	Second city: city: city: city: city: don Factors 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	t, swing load dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	apty): otion: AVERAG	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity Net Corrections	Second city: city: city: city: city: city: don Factors 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	t, swing load dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	npty): otion: AVERAG otion: AVERAG otion: AVERAG otion: Otion otion: AVERAG otion: AVERAG otion: AVERAG otion: AVERAG otion: Otion otion otion: AVERAG otion otion: Otion ot	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity Net Corrections	Second city: city: city: city: city: dion Factors 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	t, swing load dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	npty): ption: AVERAG	E minutes ss: Small	
Bucket Capacity Rated Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correct Altitude Adjusted Capacity Net Corrections	Second city: city: city: city: city: dion Factors 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	t, swing load dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72 205.72	npty): ption: AVERAG	E minutes ss: Small	
Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correct Altitude Adjusted Capac Net Corrections	Second city: city: city: city: don Factors 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	t, swing load dary Job Co	Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	npty): ption: AVERAG	E minutes ss: Small et	

HYDRAULIC EXCAVATOR WORK

Task description:	Regrad	le West Va	alley Fill D	iversion			
Elk Creek Mine		Peri	mit Action:	SI1	Pern	nit/Job#: C	1981022
PROJECT IDENT	IFICATION	<u>N</u>					
Task #: 069		State:	Colorado		Abbrev	iation: No	one
Date: 11/18/20)21	County:	Delta				2-069
User: LDS		county.	Dem				2 00)
Agency or or	ganization na	me: DR	RMS				
HOURLY EQUIPN	MENT COS	 T					
Basic Machine:		L 10'-6"	Stick		Horsepower:	268	
Attachment 1:	·		Buck		Weight (MT):	29.30)
7 tttaciment 1.	KOI 5 Cu	.0			Shift Basis:	1 per d	
					Data Source:	(CRG	
Cost Breakdown:						(/
Cost Dieakuowii.			1	Utilization %			
Ownership Cos	st/Hour	\$83.4	42	NA			
Operating Cos		\$74.1		100			
Operator Cos		\$37.3		NA			
Total Unit Cos		\$194.					
Total Fleet Co		\$194					
Total Fleet Co	ost/fiour.	\$194	.00				
MATERIAL QUAN			~~~	~ 44.0			
			CCY	Swell fac	etor: 1.125		
Initial volume:	332			5 Well lac			
Loose volume:	374		LCY	Swell fac			
Loose volume:		d volume:	LCY				
Loose volume:Source	374		LCY Map E-3	3211			
Loose volume: Source of	ee of estimated sw		LCY Map E-3	3211			
Loose volume: Source of HOURLY PRODUCE	274 se of estimate estimated sw	ell factor:	LCY Map E-3 Cat Han	3211 dbook			
Loose volume: Source of	274 se of estimate estimated sw	ell factor:	LCY Map E-3 Cat Han	3211 dbook			
Loose volume: Source of HOURLY PRODUCE	274 se of estimate estimated sw	vell factor:	LCY Map E-3 Cat Han	3211 dbook bucket, swing em	upty):	 	
Loose volume: Source of HOURLY PRODUCE	ee of estimate estimated sw CTION (load bucket.	ell factor:	LCY Map E-3 Cat Han aded, dump Basic Job (3211 dbook bucket, swing em Condition Descrip	upty): otion: AVERAG		
Loose volume: Source of HOURLY PRODUCE	ee of estimate estimated sw CTION (load bucket.	ell factor:	LCY Map E-3 Cat Han aded, dump Basic Job (3211 dbook bucket, swing em Condition Descrip hin Basic Descrip	npty): otion: AVERAG otion: AVERAG	Е	nutes
Loose volume: Source Source of HOURLY PRODU Excavator Cycle Time	ee of estimate estimated sw CTION (load bucket.	ell factor:	LCY Map E-3 Cat Han aded, dump Basic Job (3211 dbook bucket, swing em Condition Descrip	npty): otion: AVERAG otion: AVERAG	Е	nutes
Loose volume: Source of HOURLY PRODUCE	ee of estimate estimated sw CTION (load bucket.	ell factor:	LCY Map E-3 Cat Han aded, dump Basic Job (3211 dbook bucket, swing em Condition Descrip hin Basic Descrip	apty): otion: AVERAG otion: AVERAG alue: 0.321	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity	ee of estimated estimated sw. CTION (load bucket.) Second	ell factor: swing loa ary Job Co	Map E-3 Cat Han aded, dump Basic Job (ondition wit	3211 dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	npty): otion: AVERAG otion: AVERAG	E mi	nutes
Loose volume: Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac	ee of estimated sw. CTION (load bucket. Second	ell factor: swing loa ary Job Co	Map E-3 Cat Han aded, dump Basic Job Condition wit	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class	E mi	nutes
Loose volume: Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac	ee of estimated estimated sw. CTION (load bucket.) Second eity: tor:	swing loa ary Job Co	LCY Map E-3 Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to	3211 dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity	see of estimated sw. CTION (load bucket.) Second Sity: tor: (ity:	ell factor: swing loa ary Job Co	Map E-3 Cat Han aded, dump Basic Job Condition wit	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODU Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fac	see of estimated sw. CTION (load bucket.) Second Sity: tor: (ity:	swing loa ary Job Co	LCY Map E-3 Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correcti	see of estimated sweetimated s	rell factor: a swing loa ary Job Co 1.56 0.850 1.33	Map E-3 Cat Han aded, dump Basic Job Condition wit LCY (he Hard, to LCY Source	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj:	see of estimated sw. CTION (load bucket.) Second Sity: tor: tor: on Factors 1.00	rell factor: a swing loa ary Job Co 1.56 0.850 1.33	LCY Map E-3 Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Job Condition Correcti Altitude Adj: Job Efficiency:	see of estimated sw. CTION (load bucket.) Second Sity: tor: tor: ton Factors 1.00 0.83	1.56 0.850	LCY Map E-3 Cat Han aded, dump Basic Job Condition with LCY (he Hard, to LCY) Source (CAT H) (1 shift/d)	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay)	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj:	see of estimated sw. CTION (load bucket.) Second Sity: tor: tor: ton Factors 1.00 0.83	1.56 0.850	LCY Map E-3 Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay)	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj: Job Efficiency: Net Correction:	see of estimated sw. CTION (load bucket.) Second Second Second Second Second 1.00 0.83 0.83	2 swing loa ary Job Co 1.56 0.850 1.33	LCY Map E-3 Cat Han aded, dump Basic Job (ondition wit) LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie)	dbook bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay) r	apty): otion: AVERAG otion: AVERAG alue: 0.321 Bucket Size Class 90%) 0.850	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj: Job Efficiency: Net Correction:	see of estimated sw. CTION (load bucket.) Second Sity: tor: tor: ton Factors 1.00 0.83	2 swing loa ary Job Co 1.56 0.850 1.33	LCY Map E-3 Cat Han aded, dump Basic Job Condition wit LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie)	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay) r	apty): otion: AVERAG AVERAG olion: 0.321 Bucket Size Class olion: 0.321 Bucket Size Class olion: 0.321 Bucket Size Class olion: 0.321	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj: Job Efficiency: Net Correction:	see of estimated sw. CTION (load bucket.) Second Second Second Second 1.00 0.83 0.83 Unadjusted Ho	ary Job Co	LCY Map E-3 Cat Han Aded, dump Basic Job Condition with LCY (he Hard, to LCY) Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	apty): otion: AVERAG otion: AVERAG otion: O.321 Bucket Size Class 00%) 0.850 e Altitude: 6300 fee	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj: Job Efficiency: Net Correction:	see of estimated sw. CTION (load bucket. Second Second Second Second Second 1.00 0.83 0.83 Unadjusted Ho Adjusted Ho Adjusted Ho	ary Job Co	LCY Map E-3 Cat Han Aded, dump Basic Job Condition with LCY (he Hard, to LCY) Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	btion: AVERAG btion: AVERAG alue: 0.321 Bucket Size Class 00%) 0.850 e Altitude: 6300 fee	E mi	nutes
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adjusted Capacity Altitude Adjusted Capacity Net Correction: U JOB TIME AND C	see of estimated sweet estimat	ary Job Co	Map E-3 Cat Han Aded, dump Basic Job Condition with LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72 205.72	btion: AVERAG AVERAG Otion: AVERAG O.321 Bucket Size Class O0%) 0.850 e Altitude: 6300 fee LCY/Hour LCY/Hour LCY/Hour LCY/Hour	Emi	
Loose volume: Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capacity Rated Capacity Adjusted Capacity Altitude Adj: Job Efficiency: Net Correction:	see of estimated sw. CTION (load bucket. Second Second Second Second Second 1.00 0.83 0.83 Unadjusted Ho Adjusted Ho Adjusted Ho	ary Job Co	Map E-3 Cat Han Aded, dump Basic Job Condition with LCY (he Hard, to LCY Source (CAT H (1 shift/d multiplie) Production Production	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) ugh clay (80% - 9 Site B) ay) r 247.85 205.72	btion: AVERAG btion: AVERAG alue: 0.321 Bucket Size Class 00%) 0.850 e Altitude: 6300 fee	Emi	nutes

Task description:	· · · · · · · · · · · · · · · · · · ·	ove Sewage Leach	rieiu			
Elk Creek Mine		Permit Act	tion: SI1		Permit/Job#:	C1981022
PROJECT IDEN	TIFICATION	<u>ON</u>				
Task #: 071		State: Colo	rado		Abbreviation:	None
Date: 11/18/	/2021	County: Delta			Filename:	022-071
User: LDS	72021	County. Deta			Tilename.	022-071
Agency or	organization	name: DRMS				
HOURLY EQUI	PMENT CO	<u>OST</u>				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574					
Blade Type:	Semi-Unive	ersal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
COSt DICARGOWII.				<u>Utilization %</u>		
Ownership Cost/H	our'	\$169	9 60	NA		
Operating Cost/H		\$166		100		
Ripper own. Cost/H			0.00	NA		
Ripper op. Cost/H			0.00	0		
Operator Cost/H			1.30	NA		
Operator Cost/11		ΨΤΙ	1.50	INA		
MATERIAL QU						
Initial Volume: _ Swell factor:	250 1.165					
Initial Volume: Swell factor: Loose volume:	1.165 291 LCY					
Swell factor:	1.165 291 LCY volume:	Map E-3207R Cat Handbook				
Swell factor: Loose volume: Source of estimated	1.165 291 LCY volume: swell factor:					
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	volume: swell factor:	Cat Handbook				
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant	1.165 291 LCY volume: swell factor:	Cat Handbook 100 feet				
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	volume: swell factor: DUCTION nce: production:	Cat Handbook 100 feet 1,718.9 LCY/hr	l or emban	kment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	volume: swell factor: DUCTION nce: production:	Cat Handbook 100 feet 1,718.9 LCY/hr	l or emban	kment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	volume: swell factor: DUCTION ace: production: ey description ent: 10 %	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file	l or emban	kment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	volume: swell factor: DUCTION nce: production: by description ent: e: 10 % 6,400	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file feet	l or emban	kment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	volume: swell factor: DUCTION nce: production: by description ent: e: 10 % 6,400	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file	l or emban	kment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	volume: swell factor: DUCTION nce: production: ty description ent: e: 2,900 Decor	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file feet		Earth		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre	volume: swell factor: DUCTION nce: production: y description ent: 6,400 2,900 Decorection Factor	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file feet lbs/LCY mposed rock - 50%		Earth Source		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct Open	volume: swell factor: DUCTION nce: production: y description ent: 10 % 6,400 2,900 Decorection Factor rator Skill:	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file feet lbs/LCY mposed rock - 50% 0.750		Earth Source (AVG.)		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co	volume: swell factor: DUCTION nce: production: y description ent: 10 % 6,400 2,900 Decorection Factor rator Skill:	Cat Handbook 100 feet 1,718.9 LCY/hr Compacted file feet lbs/LCY mposed rock - 50%		Earth Source		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2794

Adjusted unit production: 480.26 LCY/hr
Adjusted fleet production: 480.26 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.787/LCY

Total job time: 0.61 Hours
Total job cost: \$229

Task description:	Regr	ade Pond A				
: Elk Creek Mine		Peri	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	TIFICATION	<u>ON</u>				
Task #: 072		State:	Colorado		Abbreviation:	None
Date: $\frac{-0.72}{11/18}$	/2021	County:	Delta		Filename:	022-072
User: LDS	-	J			-	
Agency or	organization	name: DR	RMS			
HOURLY EQUI	PMENT CO	OST				
Basic Machine:	Cat D10T -	<u>-</u>				
Horsepower:	574					
Blade Type:	Semi-Unive	ersal				
Attachment:	NA			<u> </u>		
Shift Basis:	1 per day			_		
Data Source:	(CRG)					
Cost Breakdown:				1		
O			¢1.co.co	<u>Utilization %</u>		
Ownership Cost/H Operating Cost/H			\$169.60 \$166.94	NA 100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H			\$41.30	NA		
MATERIAL QU Initial Volume: Swell factor:	400 1.165					
Loose volume:	466 LCY		<u> </u>			
Source of estimated Source of estimated		Map S-04 Cat Hand				
HOURLY PROD	<u>UCTION</u>					
Average push distant Unadjusted hourly p		50 feet 2,748.7 LC	Y/hr			
Materials consistence	ey description	: Compa	cted fill or e	mbankment 0.9		
Average push gradie Average site altitude		feet				
Material weight:	2,900	lbs/LCY				
Weight description:	Decor	nposed rock	- 50% Rock	, 50% Earth		
Job Condition Corre	ection Factor rator Skill:	0	750	Source (AVG.)		
Material co			900	(CAT HB))		
	ng method:		000	(GEN.)		
	Visibility:		000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Page 2 of 2

Net correction: 0.2794

Adjusted unit production: 767.99 LCY/hr
Adjusted fleet production: 767.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.492/LCY

Total job time: 0.61 Hours
Total job cost: \$229

Task description:	Regra	de Pond B					
Elk Creek Mine		Per	mit Action:	SI1		Permit/Job#:	C1981022
PROJECT IDEN	TIFICATIO	<u>N</u>					
Task #: 073		State:	Colorado			Abbreviation:	None
Date: 11/18	/2021	County:	Delta			Filename:	022-073
User: LDS		county.	Dena				022 073
		DI))				
Agency or	organization n	ame: DF	RMS				
HOURLY EQUI	PMENT CO	<u>ST</u>					
Basic Machine:	Cat D10T -	10SU					
Horsepower:	574						
Blade Type:	Semi-Univer	rsal					
Attachment:	NA						
Shift Basis:	1 per day						
Data Source:	(CRG)						
Cost Breakdown:							
-					<u>Utilization %</u>		
Ownership Cost/H			\$169.60		NA		
Operating Cost/H			\$166.94		100		
Ripper own. Cost/H			\$0.00		NA		
Ripper op. Cost/H			\$0.00		0		
Operator Cost/H	our:		\$41.30		NA		
MATERIAL QU Initial Volume: Swell factor:	11,333 1.165						
Loose volume:	13,203 LCY						
Source of estimated Source of estimated		Division Cat Hand		ion, M	ining & Safety		
HOURLY PROD	UCTION						
Average push distar	ice:	175 feet					
Unadjusted hourly p		1,074.3 LC	Y/hr				
Materials consistence	ey description:	Compa	cted fill or e	mbank	ment 0.9		
Average push gradio Average site altitude		eet					
Material weight:	2,900 1	bs/LCY				<u> </u>	
Weight description:	Decom	posed rock	- 50% Rock	, 50%	Earth		
Job Condition Corre				1	Source		
	rator Skill:		750		(AVG.)		
Material co			900		(CAT HB))		
Dozir	ng method:		000		(GEN.)		
	Visibility:	1.	000		(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 507.50 LCY/hr
Adjusted fleet production: 507.5 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.745/LCY

Total job time: 26.02 Hours
Total job cost: \$9,830

Task description:	Regr					
Elk Creek Mine		Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	TIFICATION	<u>ON</u>				
Task #: 075		State:	Colorado		Abbreviation:	None
Date: 11/18	/2021	County:	Delta		Filename:	022-075
User: LDS						
	organization	name: DF	RMS			
HOURLY EQUI	PMENT CO	<u>)51</u>				
Basic Machine:	Cat D10T -	10SU		<u></u>		
Horsepower:	574			<u>—</u>		
Blade Type:	Semi-Unive	ersal		<u> </u>		
Attachment: Shift Basis:	NA 1 per day			_		
Data Source:	(CRG)					
	(CNU)					
Cost Breakdown:				I		
0 11 0 7	r		01.00.00	<u>Utilization %</u>		
Ownership Cost/H			\$169.60	NA 100		
Operating Cost/H			\$166.94	100		
Ripper own. Cost/H Ripper op. Cost/H			\$0.00 \$0.00	NA 0		
Operator Cost/H	iour:		\$41.30	NA		
Total unit Cost/Hou	r: \$377.	84				
Total Fleet Cost/Ho						
MATERIAL QU	ANTITIES					
	<u> </u>					
Initial Volume: Swell factor:	2,300 1.165		_			
Loose volume:	2,680 LCY		_			
Loose volume.	2,000 LC 1					
Source of estimated	volume:					
			Estimate			
Source of estimated		Division Cat Hand				
	swell factor:					
HOURLY PROI	swell factor:					
	swell factor:					
HOURLY PROI	swell factor: DUCTION nce:	Cat Hand	book			
HOURLY PROI	swell factor: DUCTION nce: production:	Cat Hand 100 feet 1,718.9 LC	book Y/hr	mbankment 0.9		
HOURLY PROI Average push distar Unadjusted hourly p	well factor: DUCTION nce: production: cy description	Cat Hand 100 feet 1,718.9 LC	book Y/hr	mbankment 0.9		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradie	well factor: DUCTION nce: production: cy description ent: 0 %	Cat Hand 100 feet 1,718.9 LC Compa	book Y/hr	mbankment 0.9		
HOURLY PROI Average push distar Unadjusted hourly p	well factor: DUCTION nce: production: cy description ent: 0 %	Cat Hand 100 feet 1,718.9 LC Compa	book Y/hr	mbankment 0.9		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradie	buction: oroduction: cy description ent: 6,000	Cat Hand 100 feet 1,718.9 LC Compa	book Y/hr	mbankment 0.9		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistend Average push gradic Average site altitude	swell factor: DUCTION nce: production: cy description ent: 6,000 2,900	Cat Hand 100 feet 1,718.9 LC Compa	Y/hr cted fill or e			
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description:	swell factor: DUCTION nce: production: cy description ent: 6,000 2,900 Decor	Cat Hand 100 feet 1,718.9 LC Compa	Y/hr cted fill or e	., 50% Earth		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre	swell factor: DUCTION nce: production: cy description ent: 6,000 2,900 Decor	Cat Hand 100 feet 1,718.9 LC Compa feet lbs/LCY mposed rock	Y/hr cted fill or e			
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre Ope	swell factor: DUCTION nce: production: cy description ent: 6,000 2,900 Decorection Factor	Cat Hand 100 feet 1,718.9 LC Compa feet lbs/LCY mposed rock 0.	Y/hr cted fill or e	, 50% Earth Source		
HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre Ope Material co	swell factor: DUCTION nce: production: cy description ent: 6,000 2,900 Decorection Factor rator Skill:	Cat Hand 100 feet 1,718.9 LC Compa feet lbs/LCY mposed rock 0. 0.	Y/hr cted fill or e - 50% Rock	., 50% Earth <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production:
Adjusted fleet production:
610.90 LCY/hr
610.9 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.619/LCY

Total job time: 4.39 Hours
Total job cost: \$1,657

Task description:	Regrade Pond F			
e: Elk Creek Mine	Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIFI	CATION			
Task #: 077	State: Colorado		Abbreviation:	None
Date: 11/18/2021	County: Delta		Filename:	022-077
User: LDS			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D10T - 10SU			
Horsepower: 574		<u> </u>		
<u></u>	ni-Universal			
Attachment: NA				
Shift Basis: 1 pe	er day			
Data Source: (CR	(G)			
Cost Breakdown:				
COSt Divanco Wil.		Utilization %		
Ownership Cost/Hour:	\$169.60	NA		
Operating Cost/Hour:	\$166.94	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
T 1 1 G 1 T	***	<u>I</u>		
Total unit Cost/Hour:	\$377.84			
Total Fleet Cost/Hour:	\$377.84			
MATERIAL QUANT Initial Volume: 1,020 Swell factor: 1.330)			
Loose volume: 1,357	7 LCY			
Source of estimated volum Source of estimated swell		ion Estimate		
HOURLY PRODUCT	<u> ION</u>			
Average push distance:	90 feet			
Unadjusted hourly produc				
Materials consistency des	cription: Compacted fill or e	mbankment 0.9		
Average push gradient:	5 %			
Average site altitude:	6,300 feet			
Material weight:	2,900 lbs/LCY		_	
Weight description:	Decomposed rock - 50% Rock	, 50% Earth		
Job Condition Correction	<u>Factor</u>	Source		
Operator S		(AVG.)		
Material consiste		(CAT HB))		
Dozing met		(GEN.)		
Visib	ility: 1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3209

Adjusted unit production: 601.21 LCY/hr
Adjusted fleet production: 601.21 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.628/LCY

Total job time: 2.26 Hours
Total job cost: \$853

SCRAPER TEAM WORK

Task description:	Replace Top	soil fro	n Stockj	pile to Previously	Disturbed Elk	A		
Site: Elk Creek Mine		Permit	Action:	SI1	Peri	mit/Job#:	C1981	022
PROJECT IDEN	TIFICATION							
Task #: 090	Sta	ate: C	olorado		Abbre	viation:	None	
Date: 11/18/			elta			ename:	022-090)
User: LDS		-				-		
Agency or	organization name:	DRMS	S					
HOURLY EQUII	PMENT			COSTSI	hift basis: 1 per d	<u>ay</u>		
	~			ent Description				
		raper:		G w/push-pull				
Cunn	ort Equipment -Load .	ozer:	NA NA					
Suppo	nt Equipment -Load . Dump -	-	NA					
Road Ma	nintenance – Motor Gr		NA					
	-Water T	ruck:	NA					
Cost Breakdown:	Scraper Work			Support Equip				Equipment
	Scraper	Doz	er	Load Area	Dump Area	Motor	Grader	Water Truck
%Utilization-machine:	100		NA	NA	NA		NA	NA
Ownership cost/hour:	\$223.48		NA	NA	NA		NA	NA
Operating cost/hour:	\$193.77		NA	NA	NA		NA	NA
%Utilization-ripper:	NA		NA	NA	NA		NA	NA
Ripper own. cost/hour:	NA		NA	NA	NA		NA	NA
Ripper op. cost/hour:	NA		NA	NA	NA		NA	NA
Operator cost/hour:	\$30.90		NA	NA	NA		NA	NA
Unit Subtotals:	\$448.15		NA	NA	NA		NA	NA
Number of Units:	2		0	0	0		0	0
Group Subtotals:	Work:	\$896	.30	Support:	\$0.00		Maint:	\$0.00
Total work team cos				,				
			COM	G 11.6	1 105			
Initial volume: Loose volume:	1,500 1,688		CCY LCY	Swell fact	or: 1.125	<u></u>		
	arce of estimated volu of estimated swell fac		Operator Cat Hand	Estimate lbook				
HOURLY PROD	<u>UCTION</u>							
				Scraper Bo	owl (volume) Bas	is:		
Material weight:	2,650 lbs/LCY			Struck	Volume: 24.00		LC	CY
Material description:	Decomposed rock 75% Earth	- 25% R	ock,	Heaped 7	· · · · · · · · · · · · · · · · · · ·		L(
Rated Payload:	81,600 pounds			Average `	Volume: 29.00		L(CY
Payload Capacity:	30.79 I CY			Adjusted C				

a 1		-		
Cvc	е	11	m	e.

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{1.00} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.60} \text{ Minutes} \\ \end{array}$

Job Condition Correction: Site Altitude: 6200 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-12.50	5.00	-7.50	1628	0.61

Haul Time: **0.61** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	12.50	5.00	17.50	832	0.98

Return Time: 0.98 minutes Total Scraper team cycle time: 3.19 minutes Adjusted for job conditions: 905.45 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 905.45 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 905.45 LCY/Hour

Unadjusted unit production/hour:	1,090.91	LCY/Hou
Optimal Number of Scrapers per push dozer:		_

JOB TIME AND COST

Fleet size:	1	_ Team(s)	Total job time:	1.86	Hours
Unit cost:	\$0.990	/LCY	Total job cost:	\$1,670	

SCRAPER TEAM WORK

Task description:	Replace To	psoil fro	m Stock	pile to East Refu	se Area		
Site: Elk Creek Mine		Permit	Action:	SI1	Per	mit/Job#: C19	81022
PROJECT IDEN	TIFICATION						
Task #: 092	S	State: C	Colorado		Abbre	viation: None	<u>)</u>
Date: 11/18	/2021 Cor	unty: [Delta		Fi	lename: 022-0	092
User: LDS							
Agency or	organization name:	DRM	S				
HOURLY EQUI	PMENT_			COSTS	hift basis: 1 per c	la <u>y</u>	
				ent Description			
		craper:		7G w/push-pull			
Sunn	ort Equipment -Loa	Dozer:	NA NA				
Зирр	• •	p Area:	NA				
Road M	aintenance – Motor		NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wor	rk Team		Support Equi	pment	Maintenand	ce Equipment
	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	
%Utilization-machine:	100		NA	NA	NA	NA	NA NA
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	NA NA
Operating cost/hour:	\$193.77		NA	NA	NA	NA	NA NA
%Utilization-ripper:	NA		NA	NA	NA	NA	NA NA
Ripper own. cost/hour:	NA		NA	NA	NA	NA	NA NA
Ripper op. cost/hour:	NA		NA	NA	NA	NA	NA NA
Operator cost/hour:	\$30.90		NA	NA	NA	NA	NA NA
Unit Subtotals:	\$448.15		NA	NA	NA	NA	NA NA
Number of Units:	2		0	0	0	(0
Group Subtotals:	Work:	\$896	.30	Support:	\$0.00	Maint	: \$0.00
Total work team cos							
MATERIAL QU							
Initial volume			CCY	Swell fac	tor: 1.125		
Loose volume			LCY				
	urce of estimated vo of estimated swell f		Map E32 Cat Han				
HOURLY PROI	DUCTION						
				Scraper B	owl (volume) Bas	is:	
Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00		LCY
Material description:	Earth - Dry packe	ed			Volume: 34.00		LCY
Rated Payload:				Average	Volume: 29.00 29.00		LCY LCY
Pavioad Canacity	37. UU L.U. Y			A(IIIISTEA C	adachy: Z y iii		IA.I

Site Altitude: 6200 feet

Scraper Loading Time: 1.00 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	10.00	5.00	15.00	589	1.71

Haul Time: 1.71 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-10.00	5.00	-5.00	2972	0.41

0.41 minutes Return Time: Total Scraper team cycle time: 3.72 minutes Adjusted for job conditions: 776.45 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: LCY/Hour 776.45 Adjusted multiple scraper team (fleet) hourly production: 776.45 LCY/Hour Unadjusted unit production/hour: 935.48 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	5.07	Hours
Unit cost:	\$1.154	_ /LCY	Total job cost:	\$4,545	_

SCRAPER TEAM WORK

Task description:	Replace To	psoil fro	m Stock	pile to West Vall	ey Fill Area		
Site: Elk Creek Mine		Permi	t Action:	SI1	Peri	nit/Job#: <u>C198</u>	1022
PROJECT IDENT	<u> TIFICATION</u>						
Task #:093		tate:	Colorado			viation: None	
Date: 11/18/2	2021 Cou	inty: _]	Delta		Fil	ename: 022-09	93
User: LDS							
Agency or o	organization name:	DRM	IS				
HOURLY EQUIP	MENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
				ent Description			
		craper:		G w/push-pull			
Suppo	- rt Equipment -Load	Dozer:	NA NA				
Зирро .		Area:	NA				
Road Mai	intenance –Motor (NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wor	k Team		Support Equip	oment	Maintenance	Equipment
	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		NA	NA	NA	NA	NA
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	NA
Operating cost/hour:	\$193.77		NA	NA	NA	NA	NA
% Utilization-ripper:	NA		NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA		NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA		NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90		NA	NA	NA	NA	NA
Unit Subtotals:	\$448.15		NA	NA	NA	NA	NA
Number of Units:	2		0	0	0	0	(
Group Subtotals:	Work:	\$896	5.30	Support:	\$0.00	Maint:	\$0.00
Total work team cost.	/hour: \$896.30						
MATERIAL QUA	<u>NTITIES</u>						
Initial volume:	18,300		CCY	Swell fact	tor: 1.125		
Loose volume:	20,588		LCY				
	rce of estimated vo			of Reclamation, l	Mining & Safety		
Source of	of estimated swell f	actor:	Cat Hand	dbook			
HOURLY PRODU	<u>UCTION</u>						
				Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00	L	CY
Material description:	Earth - Dry packe	ed		Heaped			CY
Rated Payload:	81,600 pounds			Average	Volume: 29.00 Vapacity: 29.00		CY CY

Site Altitude: 6200 feet

Cycle Time:

Scraper Loading Time: 1.00 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	2350.00	-1.00	5.00	4.00	2394	1.21

Haul Time: 1.21 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2350.00	1.00	5.00	6.00	2638	1.06

Return Time: 1.06 minutes Total Scraper team cycle time: 3.87 minutes Adjusted for job conditions: 746.36 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: LCY/Hour 746.36 Adjusted multiple scraper team (fleet) hourly production: 746.36 LCY/Hour

Unadjusted unit production/hour: 899.22 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	27.58	Hours
Unit cost:	\$1.201	_ /LCY	Total job cost:	\$24,724	

SCRAPER TEAM WORK

Task description:	Replace To	psoil fro	om Stock	pile to II-West R	efuse Pile		
Site: Elk Creek Min	ie	Permi	t Action:	SI1	Peri	mit/Job#: <u>C198</u>	1022
PROJECT IDE	ENTIFICATION						
Task #: 094			Colorado			viation: None	
		unty:	Delta		Fil	ename: 022-09	04
User: LDS	<u> </u>						
Agency	or organization name:	DRM	IS				
HOURLY EQU	<u>JIPMENT</u>			COSTS	hift basis: 1 per d	<u>ay</u>	
				ent Description			
		craper:		G w/push-pull			
Cut	pport Equipment -Loa	-Dozer:	NA NA				
Sup		n Area:	NA NA				
Road	Maintenance – Motor	L .	NA				
	-Water	Truck:	NA				
Cost Breakdown	: Scraper Wo	rk Team		Support Equi	pment	Maintenance	Equipment
	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	e: 100		NA	NA	NA	NA	NA
Ownership cost/hou	r: \$223.48		NA	NA	NA	NA	NA
Operating cost/hou	r: \$193.77		NA	NA	NA	NA	NA
%Utilization-rippe	r: NA		NA	NA	NA	NA	NA
Ripper own. cost/hou			NA	NA	NA	NA	NA
Ripper op. cost/hou			NA	NA	NA	NA	NA
Operator cost/hou			NA	NA	NA	NA	NA
Unit Subtotal			NA	NA	NA	NA	NA
Number of Unit			0	0	0	0	(
Group Subtotal	s: Work:	\$89	6.30	Support:	\$0.00	Maint:	\$0.00
Total work team of	ost/hour: \$896.30						
MATERIAL Q	<u>UANTITIES</u>						
Initial volum	ne: 4,650		CCY	Swell fac	tor: 1.125		
Loose volum	ne: 5,231		LCY				
	Source of estimated vo	_		of Reclamation,	Mining & Safety		
Source	ce of estimated swell	factor:	Cat Hand	dbook			
HOURLY PRO	<u>DUCTION</u>						
				Scraper B	owl (volume) Bas	is:	
Material weigh	nt: 2,550 lbs/LCY			Struck	Volume: 24.00	L	CY
Material descriptio	n: Earth - Dry pack	ed			Volume: 34.00		CY
Rated Payloa Payload Capacit				Average	Volume: 29.00 Capacity: 29.00		CY CY
Pavioad Canacii	v 77. UUTALY			Amusien C	adactiv: 29 iii		A. I

Site Altitude: 6300 feet

C	vcle	Time	•

Scraper Loading Time: 1.00 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	750.00	10.00	5.00	15.00	589	1.28

Haul Time: 1.28 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	-10.00	5.00	-5.00	2972	0.32

Return Time: **0.32** minutes Total Scraper team cycle time: 3.20 minutes Adjusted for job conditions: 902.63 LCY/Hour Selected Number of Scrapers: Scraper(s) 2 Adjusted single scraper team (unit) hourly production: LCY/Hour 902.63 Adjusted multiple scraper team (fleet) hourly production: 902.63 LCY/Hour

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	5.80	Hours
Unit cost:	\$0.993	/LCY	Total job costs	¢5 105	
Unit cost.	\$U.993	/LC I	Total job cost:	\$5,195	

SCRAPER TEAM WORK

Task description:	Replace To	psoil fro	om Stock	pile to II West R	efuse Pile Road		
Site: Elk Creek Mine	<u>e</u>	Permi	t Action:	SI1	Per	mit/Job#: <u>C198</u>	1022
PROJECT IDE	NTIFICATION						
Task #: 095			Colorado			viation: None	
	8/2021 Co	unty:	Delta		Fil	ename: 022-09	95
User: LDS							
Agency o	r organization name:	DRM	IS				
HOURLY EQU	<u>IPMENT</u>			COSTS	hift basis: 1 per d	<u>ay</u>	
				ent Description			
		craper:		G w/push-pull			
Sun	port Equipment -Loa	Dozer:	NA NA				
Ծ աբ		p Area:	NA				
Road N	Maintenance – Motor		NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wo	rk Team		Support Equi	pment	Maintenance	Equipment
	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	: 100		NA	NA	NA	NA	NA
Ownership cost/hour	: \$223.48		NA	NA	NA	NA	NA
Operating cost/hour	: \$193.77		NA	NA	NA	NA	NA
%Utilization-ripper	: NA		NA	NA	NA	NA	NA
Ripper own. cost/hour	: NA		NA	NA	NA	NA	NA
Ripper op. cost/hour	: NA		NA	NA	NA	NA	NA
Operator cost/hour			NA	NA	NA	NA	NA
Unit Subtotals	·		NA	NA	NA	NA	NA
Number of Units			0	0	0	0	(
Group Subtotals	: Work:	\$89	6.30	Support:	\$0.00	Maint:	\$0.00
Total work team co	ost/hour: <u>\$896.30</u>						
MATERIAL QU	<u>UANTITIES</u>						
Initial volume			CCY	Swell fact	tor: 1.125		
Loose volume	e: 1,125		LCY				
	ource of estimated vo	_		of Reclamation,	Mining & Safety		
Sourc	e of estimated swell t	actor:	Cat Han	dbook			
HOURLY PRO	<u>DUCTION</u>						
				Scraper B	owl (volume) Bas	is:	
Material weigh	t: 2,550 lbs/LCY			Struck	Volume: 24.00	L	CY
Material description	: Earth - Dry pack	ed		Heaped			CY
Rated Payload Payload Capacity				Average	Volume: 29.00 Capacity: 29.00		CY CY
ravioad Canacity	/ 37. UU LA. Y			Addisted C	ADACHV: ZY IIII		A. I

Site Altitude: 6300 feet

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{1.00} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.60} \text{ Minutes} \\ \end{array}$

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	800.00	4.00	5.00	9.00	1042	0.81

Haul Time: **0.81** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-4.00	5.00	1.00	2963	0.39

0.39 minutes Return Time: Total Scraper team cycle time: 2.80 minutes Adjusted for job conditions: 1,031.57 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 1,031.57 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,031.57 LCY/Hour

Unadjusted unit production/hour: 1,242.86 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	1.09	Hours
Unit cost:	\$0.869	/LCY	Total job cost:	\$977	

Elk Creek Mine	Permi	t Action: SI	1	Permit/Job#:	C1981022
PROJECT IDENTII	FICATION				
Task #: 096	<u> </u>	Colorado		Abbreviation:	None
Date: 11/18/202		Delta		Filename:	022-096
User: LDS		Delta		Thename.	022 070
Agency or org	anization name: DRM	1S			
HOURLY EQUIPM	FNT COST				
	at D10T - 10SU				
Horsepower: 57					
· <u> </u>	emi-Universal				
Attachment: N	A				
Shift Basis: 1	per day				
Data Source: (C	CRG)				
Cost Breakdown:		_			
·			<u>Utilization %</u>		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$377.84				
Total Fleet Cost/Hour:	\$1,133.53		<u> </u>		
					
MATERIAL QUAN	TITIES				
Initial Volume: 250					
Swell factor: 1.1		-			
	LCY	-			
		=			
Source of estimated vol			Mining & Safety		
Source of estimated swe	ell factor: Cat Handbo	ook	_		
HOURLY PRODUC	<u>CTION</u>				
Average push distance:	100 feet				
Unadjusted hourly prod		hr	_		
, , ,	<u> </u>		_		
Materials consistency de	escription: Consolid	ated stockpile	1.0		
Average push gradient:	5 %				
Average site altitude:	7,500 feet	<u> </u>			
<i>5</i>					
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packed				
Job Condition Correction	n Factor		Source		
Operator		50	(AVG.)		
Material consis			(CAT HB)		
Dozing m		00	(GEN.)		
	ibility: 1.00	M	(AVG)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4056

Adjusted unit production: 697.19 LCY/hr
Adjusted fleet production: 2091.57 LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: \$0.542/LCY

Total job time: 0.13 Hours
Total job cost: \$152

SCRAPER TEAM WORK

Task description:	Replace To	psoil fro	om Stock	pile to Elk Creek	Mine Area		
Site: Elk Creek Mine		Permi	t Action:	SI1	Peri	mit/Job#: <u>C198</u>	1022
PROJECT IDENT	<u>TIFICATION</u>						
Task #: 098		_	Colorado			viation: None	
Date: <u>11/18/2</u> User: LDS	.021 Cou	inty:]	Delta		Fil	ename: 022-09	98
Agency or o	rganization name:	DRM	IS				
HOURLY EQUIP	MENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
				ent Description			
		craper:		7G w/push-pull			
Suppor	rt Equipment -Load	Dozer:	NA NA				
Биррог		Area:	NA				
Road Mai	ntenance –Motor (NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wor	k Team		Support Equip	oment	Maintenance	Equipment
	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		NA	NA	NA	NA	NA
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	NA
Operating cost/hour:	\$193.77		NA	NA	NA	NA	NA
%Utilization-ripper:	NA		NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA		NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA		NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90		NA	NA	NA	NA	NA
Unit Subtotals:	\$448.15		NA	NA	NA	NA	NA
Number of Units:	2		0	0	0	0	(
Group Subtotals:	Work:	\$896	5.30	Support:	\$0.00	Maint:	\$0.00
Total work team cost/	/hour: \$896.30						
MATERIAL QUA	NTITIES						
Initial volume:	13,400		CCY	Swell fact	tor: 1.125		
Loose volume:	15,075		LCY				
	ce of estimated vo			Estimate			
Source o	f estimated swell f	actor: _	Cat Hand	dbook			
HOURLY PRODU	<u>UCTION</u>						
				Scraper Bo	owl (volume) Bas	is:	
Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00	L	CY
Material description:	Earth - Dry packe	ed			Volume: 34.00		CY
Rated Payload: Payload Capacity:	81,600 pounds			Average	Volume: 29.00 Capacity: 29.00		CY CY

Site Altitude: 6200 feet

Cycle Time:

Scraper Loading Time: 1.00 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-10.00	5.00	-5.00	2972	0.56

Haul Time: **0.56** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	10.00	5.00	15.00	1047	1.46

Return Time: 1.46 minutes Total Scraper team cycle time: 3.62 minutes Adjusted for job conditions: 797.90 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 797.90 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 797.90 LCY/Hour

Unadjusted unit production/hour: 961.33 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	18.89	Hours
Unit cost:	\$1.123	/LCY	Total job cost:	\$16,934	

Ells Cuash Mari	Demonity And	CII	Dames 27/T - 1, 11	C1001022
Elk Creek Mine	Permit Action:	511	Permit/Job#:	C1981022
PROJECT IDENTIFICA	ATION			
Task #: 103	State: Colorado		Abbreviation:	None
Date: 11/18/2021	County: Delta		Filename:	022-103
User: LDS			_	022 100
Agency or organiza	ntion name: DRMS			
HOURLY EQUIPMENT	r cost			
	10T - 10SU			
Horsepower: 574	.01 - 1030	<u> </u>		
	Universal			
Attachment: NA		<u> </u>		
Shift Basis: 1 per d	lay			
Data Source: (CRG)	•			
Cost Breakdown:		ı		
0 11 0 177	44.00.50	<u>Utilization %</u>		
Ownership Cost/Hour:	\$169.60	NA 100	<u> </u>	
Operating Cost/Hour:	\$166.94 \$0.00	100 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:	\$0.00 \$0.00	NA 0		
Operator Cost/Hour:	\$41.30		<u> </u>	
Operator Cost/Hour:	φ41.30	NA	_	
Γotal unit Cost/Hour: \$	377.84			
Total Fleet Cost/Hour: \$	377.84			
MATERIAL QUANTIT	<u>IES</u>			
Initial Volume: 1,300				
Swell factor: 1.125				
Loose volume: 1,463 L	CY			
Source of estimated volume:	Man 2.05 M4 (Shoot	5 of 5); Map 2.05-M5J		
Source of estimated volume.		5 01 5), wap 2.05-wis		
bring of John Miles Bright Ide	- Cut Hundoon			
HOURLY PRODUCTION)N			
Average push distance:	125 feet			
Unadjusted hourly productio	n: 1,450.0 LCY/hr			
Materials consistency descrip	ption: Consolidated stock	pile 1.0		
Average push gradient: 1	0 %			
	6,400 feet			
Material weight: 2	2,550 lbs/LCY			
Weight description:E	Earth - Dry packed			
Job Condition Correction Fa		Source		
Operator Ski	11: 0.750	(AVG.)		
Material consistenc		(CAT HB)		
Dozing metho		(GEN.)		
Visibilit	v: 1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3531

Adjusted unit production: 512.00 LCY/hr

Adjusted fleet production: 512 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.738/LCY

Total job time: 2.86 Hours Total job cost: \$1,079

REVEGETATION WORK

Elk Creek Mine		e Site			Darmit/Lab#s	C1981022
EIR Creek Wille	Mine Permit Action: SI1 Permit/			Perilli/Job#:	<u>C1981022</u>	
ROJECT IDENTIFICA	ATION					
Task #: 120	State: Co	olorado		Abł	reviation:	None
Date: 11/18/2021	County: De	elta		- -	Filename:	C022-120
User: LDS						
Agency or organiza	ntion name: DRMS					
ERTILIZING						
Demonite di en		Units /	TT 24	Cont	:/Unit	Cost /Acre
Description		Acre	Unit		. / Clift	
				\$		\$
				Tota	al Fertilizer	
					Materials Cost/Acre	\$0.00
pplication						Cost /Acre
Description						\$
Description		Total	l Fertilizer A	Application	n Cost/Acre	\$ \$0.00
Description TILLING		Total	l Fertilizer A	Application	n Cost/Acre	
TILLING		Total	l Fertilizer A	Applicati on	n Cost/Acre	
	MEANS 31 31 16.13 3		l Fertilizer A	Application	n Cost/Acre	\$0.00
TILLING Description	MEANS 31 31 16.13 3				n Cost/Acre	\$0.00 Cost /Acre
TILLING Description	MEANS 31 31 16.13 3					\$0.00 Cost /Acre \$290.40

Seed Mix	PLS LBS / Acre	per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.00	3.26	\$11.73
Bitterbrush, Antelope	1.50	0.46	\$29.25
Aster, Engleman's	0.13	0.60	\$24.44
Mountain Brome - Bromar	1.50	2.41	\$5.70
Great Basin Wildrye - Magnar	0.50	2.03	\$5.78
Sandberg Bluegrass - VNS	0.12	2.55	\$1.01
Sheep Fescue - Covar	1.00	15.61	\$6.10
Milk Vetch, Cicer - Lutana	2.00	6.66	\$16.40

Sainfoin - Remont

Thickspike Wheatgrass - Critana

2.00

0.25

0.87

0.88

\$6.32

\$1.72

Western Wheatgrass - Arriba	0.50	1.26	\$3.25
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Needlegrass, Green - Lodorm	0.50	2.08	\$5.89
Sage, Fringed	0.06	5.01	\$2.46
Sagebrush, Mountain or Big	0.12	6.34	\$2.37
Flax, Lewis Blue	0.66	4.38	\$10.89
Sagebrush, Silver	0.12	2.33	\$3.72
Penstemon, Palmer	0.25	5.53	\$13.63
Penstemon, Rocky Mountain	0.50	7.84	\$14.75
Yarrow, Western	0.06	3.65	\$2.51
Totals Seed Mix	13.27	81.20	\$200.05

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	0.05	ACRE	\$7.78	\$0.39
Herbicide - Escort @ 1.0 pt/ac	0.05	ACRE	\$194.52	\$9.73
Total Mulch Materials Cost/Acre				\$10.12

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
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 108.25
 Cost /Acre:
 \$767.79

 Estimated Failure Rate:
 10%
 Cost /Acre*:
 \$467.27

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$83,113.27

Reseeding Job Cost: \$5,058.20

Total Job Cost: \$88,171

Job Hours: 216.50

REVEGETATION WORK

ask description: Re-seed Drill Pads, MR's and TR's, 46.23 acres @ 2% failure						
: Elk Creek Mine	Permit Action: SI1 Permit/Job#:				: <u>C1981022</u>	
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 121	State: Color	rado		Ab	breviation:	None
Date: 11/18/202		County: Delta Filename: 0		022-121		
User: LDS						
Agency or orga	anization name: DRMS					
FERTILIZING						
Materials						T
Description		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				Tot	tal Fertilizer Materials Cost/Acre	\$0.00
Description						Cost /Acre
						\$
		Total	Fertilizer A	Applicatio	on Cost/Acre	\$0.00
<u>FILLING</u>						Cost /Acre
Description Weed control sprayin	g (MEANS 31 31 16.13 3100	<u>)) </u>				\$290.40
** ccu control sprayin	<u> 5 (1411/1413 51 51 10.13 5100</u>	<u>')</u>				ΨΔ/0.40
			T	otal Tillin	ng Cost/Acre	\$290.40
SEEDING						
				Rate –	Cood-	Cost /A ==
Seed Mix				PLS	Seeds per SO	Cost /Acre
				LBS /	per SQ. FT	
				Acre		

Beardless Wheatgrass - Whitmar

Indian Ricegrass - Native

Mountain Brome - Bromar

Sandberg Bluegrass - VNS

Western Wheatgrass - Arriba

Penstemon, Rocky Mountain

Coreopsis, Lance Leafed

Prairie Junegrass

Yarrow, White

CIRCES Cost Estimating Software	

\$17.59

\$3.25

\$7.60

\$4.28

\$12.60

\$13.00

\$6.50

\$4.43

\$2.00

1.50

0.50

2.00

1.50

0.15

2.00

0.25

0.15

0.05

4.89

1.62

3.21

31.85

3.84

5.05

2.35

3.18

13.29

Totals Seed Mix	8.10	69.28	\$71.25
			1
			Cost /Acre
			\$267.22
	Totals Seed Mix	Totals Seed Mix 8.10	Totals Seed Mix 8.10 69.28

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

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
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,033.47
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost: **\$1,033.47** Reseeding Job Cost: \$0.00 Total Job Cost: \$1,033 Job Hours: **46.23**

REVEGETATION WORK

Task descr	ription:	Re-seed Light-U	se Road	ls, MR's an	d TR's, 3	5.59 acres (@ 2% fai	
te: Elk Creek Mine		Permit Action: SI1				Permit/Job#: <u>C1981022</u>		
PROJEC :	Γ IDENTIFI	CATION						
Task #: Date: User:	11/18/2021	State: County:	Colora Delta	ado		Ab		None 022-122
A	gency or organ	ization name:DR	RMS					
ERTILI	ZING							
<u> </u>								
Descrip	tion			Units / Acre	Unit	Cos	t / Unit	Cost /Acre
						\$		\$
						Tot	al Fertilizer Materials Cost/Acre	\$0.00
Application Descrip								Cost /Acre
								\$
				Total	Fertilizer	Applicatio	n Cost/Acre	\$0.00
TILLING								
Descrip								Cost /Acre
Weed co	ontrol spraying	(MEANS 31 31 16.	13 3100)				\$290.40
						Total Tillin	g Cost/Acre	\$290.40
SEEDING	<u>,</u>							
Seed M	ix					Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre

Beardless Wheatgrass - Whitmar

Indian Ricegrass - Native

Mountain Brome - Bromar

Sandberg Bluegrass - VNS

Western Wheatgrass - Arriba

Penstemon, Rocky Mountain

Coreopsis, Lance Leafed

Prairie Junegrass

Yarrow, White

\$17.59

\$3.25

\$7.60

\$12.60

\$4.28

\$13.00

\$6.50

\$4.43

\$2.00

Acre

1.50

0.50

2.00

1.50

0.15

2.00

0.25

0.15

0.05

4.89

1.62

3.21

31.85

3.84

5.05

2.35

3.18

13.29

\$267.22

Totals Seed Mix	8.10	69.28	\$71.25
			Cost /Acre
			\$267.22
	Totals Seed Mix	Totals Seed Mix 8.10	Totals Seed Mix 8.10 69.28

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

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
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,033.47
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost: \$1,033.47

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: \$1,033.47

DEMOLITION WORK

Site: _]	Elk Creek Mine	Permit Action:	SI1	Permit/.	Job#: <u>C1981022</u>
ROJEC	T IDENTIFICAT	<u>ION</u>			
Task #:	130	State: Colorado		Abbreviation:	None
Date:	11/18/2021	County: Delta		Filename:	022-130
User:	LDS				

<u>UNIT COSTS</u> <u>Location adjustment: 91.30 %</u>

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Elk Creek Fan Structures	15'x10'x50'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	15,000.00	CF	\$0.22	\$3,285.00
- Pads	18'x60'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	2,160.00	SF	\$1.00	\$2,162.16
Substation No. 4	25'x25'x20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	12,500.00	CF	\$0.22	\$2,737.50
- Pad	25'x25'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	625.00	SF	\$1.00	\$625.63
- Fencing	100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	100.00	LF	\$3.08	\$308.00
- Transformer	NA	NON-PCB Transformer Removal	1.00	EA	\$2,238.20	\$2,238.20
200,000 Gallon Water Tank	200,000 Gallons	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	28,510.00	CF	\$0.24	\$6,728.36
Rock Dust Tanks (2)	20'x15' Diameter	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	7,069.00	CF	\$0.24	\$1,668.28
- Pads	16'x8'x8"	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	256.00	SF	\$1.33	\$341.50
- Footings	8@8.75'x2'	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	24.00	LF	\$12.01	\$288.24
Overland Conveyors	2,400 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	40.00	EA	\$3,125.00	\$125,000.00
- Transfer Towers (3)	10'x20'x25'	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	15,000.00	CF	\$0.24	\$3,540.00

		10,000 ft. haul				
- Pads	10'x20'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	600.00	SF	\$2.00	\$1,201.20
Powerlines	3,100 LF	Utility Poles, Wood 35' - 45' high (each pole)	30.00	EA	\$292.00	\$8,760.00
Elk Creek Culvert	300 LF x 9' D	Pipe, corrugated metal (CMP) - 108 in. diameter pipe	300.00	LF	\$51.18	\$15,352.80
Substation No. 1 Transformers (3)	NA	NON-PCB Transformer Removal	3.00	EA	\$2,238.20	\$6,714.60
- Equipment	6'x8'x6'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	288.00	CF	\$0.22	\$61.92
- Pad	25'x25'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	625.00	SF	\$1.00	\$625.63
- Fence	100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	100.00	LF	\$3.08	\$308.00
Explosives Magazine	20'x25'x10'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	10,000.00	CF	\$0.22	\$2,150.00
Dump Station	140'x40'x12'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	67,200.00	CF	\$0.24	\$15,859.20
- Pad	140'x40'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,600.00	SF	\$1.00	\$5,605.60
- Footing	1'x2'x360 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	360.00	LF	\$4.00	\$1,440.00
125 and 500 Ton Steel Bins	NA	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	21,094.00	CF	\$0.24	\$4,978.18
Truck Scale Pad	10'x60'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	600.00	SF	\$2.00	\$1,201.20
- Building	Assume 5' Deep	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,000.00	CF	\$0.22	\$645.00
- Footing	1.5'x3'x140 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	140.00	LF	\$9.01	\$1,261.40
Tipple Structure	30'x50'x50'	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	75,000.00	CF	\$0.24	\$17,700.00

		10,000 ft. haul				
- Pad	30'x50'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,500.00	SF	\$2.00	\$3,003.00
- Footing	1.5'x3'x160 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	160.00	LF	\$9.01	\$1,441.60
Coal Screening Facility	35'x35'x55'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	67,375.00	CF	\$0.24	\$15,900.50
- Pad	35'x55'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,225.00	SF	\$2.00	\$2,452.45
- Footing	1.5'x3'x140 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	140.00	LF	\$9.01	\$1,261.40
Dump Station/Truck Scale Conveyors	140 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	2.00	EA	\$3,125.00	\$6,250.00
Crusher/Feeder Conveyor	160 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	2.00	EA	\$3,125.00	\$6,250.00
Crusher Bypass Conveyor	200 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	3.00	EA	\$3,125.00	\$9,375.00
Silo Feeder Conveyor	380 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.00	EA	\$3,125.00	\$18,750.00
Loadout Feeder Conveyor	350 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.00	EA	\$3,125.00	\$18,750.00
Coal Storage Silo	140'x70' Diameter	Explosive demolition, large projects - Concrete structures	539,000.00	CF	\$0.32	\$172,480.00
- Headhouse	20'x20'x10'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$944.00
- Pad	12"x70' Diameter	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,848.00	SF	\$2.00	\$7,703.70
- Footing	2'x3'x220 LF	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	220.00	LF	\$12.01	\$2,642.20
Batch-Weigh Loadout	27'x27'x100'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	72,900.00	CF	\$0.24	\$17,204.40
- Pad	27'x27'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	729.00	SF	\$2.00	\$1,459.46

- Footing	1.5'x3'x108 LF	Demo. and on-site	108.00	LF	\$9.01	\$973.08
Tooting	7.5 K5 K100 E1	disposal in existing pit,	100.00		Ψ2.01	Ψ, 13.00
		1.5 ft. x 3 ft Max.				
- Surge and Weigh	300 and 120	10,000 ft. haul Bldg. (MN) demo./on-	14,175.00	CF	\$0.24	\$3,345.30
Bins	Tons	site disposal in	14,173.00	Cr	\$0.24	\$5,545.50
	1 0110	excavated pit - Max.				
		10,000 ft. haul				
- Transfer Chutes	40'x36'x18'	Bldg. (MN) demo./on-	25,920.00	CF	\$0.24	\$6,117.12
		site disposal in excavated pit - Max.				
		10,000 ft. haul				
- Discharge Chute	40'x36'x6"	Demo. and on-site	1,440.00	SF	\$1.00	\$1,441.44
-		disposal in existing pit, 6				
		in. thick - Max. 10,000				
Woman's Change	45'x30'x14'	ft. haul Bldg. (SN) demo./on-	18,900.00	CF	\$0.22	\$4,063.50
House	43 830 814	site disposal in	18,900.00	CI	Φ0.22	ψ4,003.30
		excavated pit - Max.				
		10,000 ft. haul				
- Pad	45'x30'x6"	Demo. and on-site	1,350.00	SF	\$1.00	\$1,351.35
		disposal in existing pit, 6 in. thick - Max. 10,000				
		ft. haul				
Waste Barrel Storage	10'x20';	Bldg. (SN) demo./on-	13,200.00	CF	\$0.22	\$2,838.00
Structure	30'x30'x12'	site disposal in				
		excavated pit - Max. 10,000 ft. haul				
- Pads	10'x20';	Demo. and on-site	1,100.00	SF	\$1.00	\$1,101.10
1 445	30'x30'x6"	disposal in existing pit, 6	1,100.00		Ψ1.00	Ψ1,101.10
		in. thick - Max. 10,000				
Office Centic Tenls	1,500 Gallons	ft. haul Excavate and load tank	1.00	EA	\$614.00	\$614.00
Office Septic Tank	1,500 Gallons	onto trailer, non-leaking	1.00	EA	\$614.00	\$014.00
		- 3,000 gal. to 5,000				
		gal.				
- Remove Septic	Assume 500	Remove sludge, water,	1.00	EA	\$238.00	\$238.00
Tank Sludge	Gals	and rem. product from tank - 3,000 to 5,000				
		gal.				
- Dispose of Sludge	Assume 500	Dispose of tank sludge	500.00	GAL	\$6.80	\$3,400.00
Off-Site	Gals	off-site - Average	1.00		Φ	ΦΕ (0.00
- Haul Tank to Certified Dump	1,500 Gallons	Haul tank to certified salvage dump - 3,000 to	1.00	EA	\$760.00	\$760.00
Ceruneu Dump		5,000 gal. tank				
Metal Storage	30'x60'x12'	Bldg. (SN) demo./on-	21,600.00	CF	\$0.22	\$4,644.00
Building		site disposal in				
		excavated pit - Max.				
- Pad	30'x60'x6"	10,000 ft. haul Demo. and on-site	1,800.00	SF	\$1.00	\$1,801.80
		disposal in existing pit, 6	-,		7	,00 - 1.00
		in. thick - Max. 10,000				
Train Can AntiCan	12 000 C-11	ft. haul	2.00	IT A	¢1.050.00	¢2 100 00
Train Car Antifreeze Tanks (2)	12,000 Gallons	Excavate and load tank onto trailer, non-leaking	2.00	EA	\$1,050.00	\$2,100.00
1 anks (2)		- 9,000 gal. to 12,000				
		gal.				
- Remove Sludge	Assume 2,400	Remove sludge, water,	2.00	EA	\$397.00	\$794.00
from Tank Bottom	Gals	and rem. product from				

		tank - 9,000 to 12,000 gal.				
- Dispose of Sludge Off-Site	Assume 2,400 Gals	Dispose of tank sludge off-site - Average	2,400.00	GAL	\$6.80	\$16,320.00
- Haul Tank to Certified Dump	12,000 Gallons	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Γrain Car Antifreeze Γank	6,000 Gallons	Excavate and load tank onto trailer, non-leaking - 6,000 gal. to 8,000 gal.	1.00	EA	\$880.00	\$880.00
- Remove Sludge From Tank Bottom	Assume 600 Gals	Remove sludge, water, and rem. product from tank - 6,000 to 8,000 gal.	1.00	EA	\$298.00	\$298.00
- Dispose of Sludge Off-Site	Assume 600 Gals	Dispose of tank sludge off-site - Average	600.00	GAL	\$6.80	\$4,080.00
- Haul Tank to Certified Dump	6,000 Gallons	Haul tank to certified salvage dump - 6,000 to 8,000 gal. tank	1.00	EA	\$880.00	\$880.00
Main Septic Tank	3,000 Gallons	Excavate and load tank onto trailer, non-leaking - 3,000 gal. to 5,000 gal.	1.00	EA	\$614.00	\$614.00
- Remove Sludge From Tank Bottom	Assume 500 Gals	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$238.00	\$238.00
- Dispose of Sludge Off-Site	Assume 500 Gals	Dispose of tank sludge off-site - Average	500.00	GAL	\$6.80	\$3,400.00
- Haul Tank to Certified Dump	3,000 Gallons	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Compressor House	30'x54'x16'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	25,920.00	CF	\$0.24	\$6,117.12
- Footers	1'x2'x168 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	168.00	LF	\$4.00	\$672.00
Office	62,424 CF	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	62,424.00	CF	\$0.24	\$14,732.06
- Pad	5,400 SF	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,400.00	SF	\$1.00	\$5,405.40
- Footers	1'x2'x315 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	315.00	LF	\$4.00	\$1,260.00
Bath House	100'x110'x18'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	185,850.00	CF	\$0.24	\$43,860.60
- Pad	100'x110'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000	11,000.00	SF	\$1.00	\$11,011.00

		ft. haul				
- Footers	2'x3'x420 LF	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	420.00	LF	\$12.01	\$5,044.20
Concrete Dams	14'x155'x2'	Wall, concrete, demolition only, average reinforcing - 24 in. thick	2,170.00	SF	\$4.45	\$9,656.50
- Dam Base	15'x155'x2'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	172.00	CY	\$133.50	\$22,962.00
Culvert IIW-4	12"x100 LF	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	100.00	LF	\$4.10	\$409.70
Culvert IIW-5	12"x100 LF	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	100.00	LF	\$4.10	\$409.70
Tank Containment Walls	16'x44'x4' (8")	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	485.00	SF	\$3.08	\$1,493.80
Covered Oil Storage	25'x16'x20'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	6,400.00	CF	\$0.24	\$1,510.40
Water Treatment Room	10'x20'x20'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$944.00
Sump	39.3'x14'x4' (8")	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	426.00	SF	\$3.08	\$1,312.08
Clean Oil/Water/Mud out of Sump	12,000 Gallons	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$397.00	\$397.00
- Dispose of Sludge Off-Site	Assume 2,000 Gals	Dispose of tank sludge off-site - Average	2,000.00	GAL	\$6.80	\$13,600.00
Sanborn Substation No. 2 Transformers	NA	NON-PCB Transformer Removal	3.00	EA	\$2,238.20	\$6,714.60
- Equipment Removal	6'x8'x6'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	288.00	CF	\$0.24	\$67.97
- Pad	25'x25'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	625.00	SF	\$2.00	\$1,251.25
- Fence	100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	100.00	LF	\$3.08	\$308.00
Sanborn Overland Conveyor	1500LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	24.00	EA	\$3,125.00	\$75,000.00
- Transfer Buildings (4)	10'x20'x25'	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	20,000.00	CF	\$0.24	\$4,720.00

Demo Worksheet Cont'd Task # TTT Page 7 of 7

		10,000 ft. haul				
- Pads (4)	10'x20'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	800.00	SF	\$2.00	\$1,601.60
- Equipment Removal	10'x20'x25'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,000.00	CF	\$0.24	\$236.00
Air Compressor Building #2	30'x30'x16'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	14,400.00	CF	\$0.24	\$3,398.40
- Pad	30'x30'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	900.00	SF	\$1.00	\$900.90

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	600.00	(unadjusted):	\$818,804.28	location):	\$747,568.31

BOREHOLE SEALING WORK

Site:	Elk Creek Mine	Permit Action:	SI1	Permit/.	Job#: _	C1981022
ROJEC	CT IDENTIFICATION	<u>ON</u>				
Task #:	131	State: Colorado		Abbreviation:	None	;
Date:	11/18/2021	County: Delta		Filename:	022-1	131
User:	LDS					

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
4" Holes (7)	PVC plug - 4 in. diameter borehole	4"	NA	7.00	EA	\$33.98	\$237.86
- Fill Holes with Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	50' EA	15.00	bag	\$19.95	\$299.25
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	7.00	LF	\$3.26	\$22.82
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	7.00	EA	\$37.50	\$262.50
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	42.00	EA	\$176.95	\$7,431.90
Water Truck Time - ALLHoles	Water Tanker, 5,000 Gal.	NA	NA	42.00	EA	\$75.41	\$3,167.22

Job Hours:	42.00	Total Cost:	\$11,422.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Iobilize/Demobiliz	e Equipment for	r Initial Reclamation		
e: Elk Creek Mine	Permit Action: SI1		Permit/	ob#: C1981022	
PROJECT IDENTIFICATION	<u> FION</u>				
Task #: 140 Date: 11/18/2021 User: LDS		olorado Pelta	Abbreviation Filename	·	
Agency or organizat	ion name: DRMS	5			
EQUIPMENT TRANSPO	RT RIG COST				
			Shift basis: Cost Data Source:	1 per day CRG Data	
Truck Tractor De	scription: GENI	ERIC ON-HIGH	WAY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	4, DIESEL POWERED,	
Truck Trailer De	escription: C		ING GOOSENECK, DROP DE TRAILER (25T, 50T, AND 100	~	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67		
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21		

\$20.54

\$23.53

\$132.49

\$20.54

\$23.53

\$147.95

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$20.54

\$0.00

\$68.37

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)		t		fleet		
CAT 815F	22.88	\$91.25	\$68.37	1	\$159.62	\$68.37	\$250.00
Cat D10T - 10SU	84.53	\$169.60	\$147.95	3	\$952.65	\$443.85	\$750.00
ATLAS COPCO	0.00	\$94.21	\$68.37	1	\$162.58	\$68.37	\$250.00
ROC D7-11,4.0 in.							
Cat 336D L 10'-6"	32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00
Stick							
CAT 14M	23.57	\$85.80	\$68.37	1	\$154.17	\$68.37	\$250.00
Cat 637G w/push- pull	59.59	\$223.48	\$147.95	2	\$742.86	\$295.90	\$500.00
Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with							
Tractor							

Subtotals: \$2,464.14 \$1,145.72 \$2,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$46.35	1	\$46.35	\$46.35
Fuel Tanker, 6x4, 210 HP	\$46.35	1	\$46.35	\$46.35
Lube Truck, 6x4, 250 HP	\$46.35	1	\$46.35	\$46.35

Flatbed Truck, 6x4, 45K GVW	\$49.15	1	\$49.15	\$49.15
Light Duty Pickup, 4x4, 1 T.	\$20.51	1	\$20.51	\$20.51
Crew				

Subtotals: **\$208.71 \$208.71**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRAND JUNCTION
miles
40.00
mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$24,367.72

\$834.84

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	2.00	2.00
Return Time (Hours):	2.00	2.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	5.00	4.00

JOB TIME AND COST

Total job cost: 10.00 Hours

Total job cost: \$25,203

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Mo	bilize/Demobili	ze Equipment for F	ond Removal			
ite: Elk Creek	Mine	Perm	Permit Action: SI1 Permit/Job#: C1981022				
PROJECT II	DENTIFICAT	<u>ION</u>					
Task #:	141	State:	Colorado	Abbreviation:	None		
Date:	11/18/2021	County:	Delta	Filename:	022-141		
User:	LDS						
Agend	cy or organizatio	n name: DRM	IS				
EQUIPMEN	Γ TRANSPOR	T RIG COST					
				Shift basis:	1 per day		
				Cost Data Source:	CRG Data		
Tr	uck Tractor Desc	cription: GEN	ERIC ON-HIGHWA	AY TRUCK TRACTOR, 6X4	, DIESEL POWERED,		
		1		400 HP (2ND HALF, 2006)	,		
Ti	ruck Trailer Desc	cription:	GENERIC FOLDIN	G GOOSENECK, DROP DE	CK EQUIPMENT		
			TR	AILER (25T, 50T, AND 100T			
Cost Breakdow	<u>n:</u>						
Available Rig	g Capacities	0-25 Tons	26-50 Tons	51+ Tons			
	ship Cost/Hour:	\$21.28	\$37.94	\$47.67			
	ing Cost/Hour:	\$26.55	\$50.48	\$56.21			
	ator Cost/Hour:	\$20.54	\$20.54	\$20.54			
	per Cost/Hour:	\$0.00	\$23.53	\$23.53			
Total U	Jnit Cost/Hour:	\$68.37	\$132.49	\$147.95			

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D10T - 10SU	84.53	\$169.60	\$147.95	1	\$317.55	\$147.95	\$250.00
Cat 623G	41.35	\$207.90	\$132.49	1	\$340.39	\$132.49	\$250.00
Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with							
Tractor							

Subtotals: \$734.29 \$348.81 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$49.15	1	\$49.15	\$49.15

Subtotals:	\$49.15	\$49.15

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DELTA

45.00 miles

mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$5,753.69

\$126.39

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.29	1.29
Return Time (Hours):	1.29	1.29
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.57	2.57

JOB TIME AND COST

Total job time:	7.14	Hours
Total job cost:	\$5,880	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

rask description: Mic	obilize/Demobiliz	e Equipment for S	oite Maintenance				
ite: Elk Creek Mine	Creek Mine Permit Action: SI1 Permit/Job#: C1981022						
PROJECT IDENTIFICAT	<u>ION</u>						
Task #: 142	State: C	Colorado	Abbreviation:	None			
Date: 11/18/2021	County: D	Delta	Filename:	022-142			
User: LDS	-						
Agency or organizatio	n name: DRMS	S					
							
EQUIPMENT TRANSPOR	T RIG COST						
			Shift basis:	1 par day			
				1 per day CRG Data			
							
Truck Tractor Desc	cription: GENI		AY TRUCK TRACTOR, 6X4,	DIESEL POWERED,			
			400 HP (2ND HALF, 2006)				
Truck Trailer Desc	cription: C		IG GOOSENECK, DROP DEC	~			
		TR	AILER (25T, 50T, AND 100T)				
Cost Breakdown:							
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons				
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67				
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21				
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54				
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53				
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95				

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	(TONS)		t		fleet		
Cat D3K XL - 3P	9.22	\$27.67	\$68.37	10	\$960.40	\$683.70	\$0.00

Subtotals: \$960.40 \$683.70 \$0.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$49.15	10	\$491.50	\$491.50

Subtotals: **\$491.50 \$491.50**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DELTA

miles

45.00

mph

Transportation Cycle Time:

	Non-			
	Roadable	Roadable		
	Equipment	Equipment		
Haul Time (Hours):	1.00	1.00		
Return Time (Hours):	1.00	1.00		
Loading Time (Hours):	2.50	NA		
Unloading Time (Hours):	2.50	NA		
Subtotals:	7.00	2.00		

JOB TIME AND COST

Total job cost: 14.00 Hours

Total job cost: \$13,875

SITE MAINTENANCE

Site:	Elk Creek Mine	Permit Action:	SI1	Permit/J	Job#: _	C1981022
PROJEC	CT IDENTIFICAT	ION				
Task #:	150	State: Colorado		Abbreviation:	None	
Date:	11/18/2021	County: Delta		Filename:	022-1	.50
User:	LDS				-	

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Pond Cleaning	10.00	Cat 307D 7'-3" Stick	100.00	EA	\$86.23	\$8,623.00
Elk Creek Stream	2.00	Cat D3K XL - 3P	20.00	EA	\$96.36	\$1,927.20
Channel Maintenance						
Elk Creek Ditch	2.00	Cat 307D 7'-3" Stick	20.00	EA	\$86.23	\$1,724.60
Maintenance						

Job Hours: 140.00 Total Cost: \$12,274.80

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: Doug Smith < Doug. Smith@oxbow.com >

Thu, Jun 16, 2022 at 6:36 PM

Doug,

Sorry for the confusion.

Attached is the most recent site-wide reclamation cost estimate, together with the explanatory cover letter. The header shows SI-1, although this was withdrawn (since the required surety ended up decreasing) and SR-2 was issued instead the RCE was not changed.

The required surety changed again since then, with SL-5 and will likely change again soon with SL-6 and SL-7, however the sitewide estimate will likely not change again until the next Permit Renewal.

I hope that makes sense.

Leigh Simmons Environmental Protection Specialist



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