

February 14, 2023

Kirk Daehling Natural Soda LLC 3200 CR 31 Rifle, CO 81650

Re: Nahcolite Project - File No. M-1983-194 Natural Soda LLC Technical Revision (TR-50) Drilling and completion of production wells 18H-1V and 18H-IR-W on new/extended pads, additional roads and pipeline disturbances

Dear Kirk Daehling:

On February 14, 2023 the Division of Reclamation, Mining and Safety concluded its review of the Technical Revision application submitted to the Division on February 1, 2023, addressing the following:

Drilling and completion of production wells 18H-1V and 18H-IR-W on new/extended pads, additional roads and pipeline disturbances

The decision reached by the Division is: Approve - installation of 18H-1V and 18H-IR-W on new/ extended pads, additional roads and pipeline disturbances

The terms of Technical Revision No. 50 approved by the Division are hereby incorporated into Permit No. M-1983-194. All other conditions and requirements of Permit No. M-1983-194 remain in full force and effect.

The revised liability amount exceeds the financial warranty currently held (see below), please submit additional bond or a rider to your existing bond that equals or exceeds the Revised Liability. The revision will not be final until the bond is approved by the Division.

Bond Held:	\$4,433,331.00
Prior Liability:	\$4,433,331.00
Change in Liability:	\$33,094.00
Revised Liability:	\$4,466,425.00
Prior Permit Acreage:	12,248.00



Change in Permit Acreage:	0.00
Revised Permit Acreage:	12,248.00
Prior Affected Acreage:	260.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	260.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,

Amy Geldell

Amy C. Yeldell Environmental Protection Specialist

cc: Gerald Daub Gerald Daub, Natural Soda LLC

M-GR-04



February 13, 2023

Kirk Daehling Natural Soda LLC 3200 CR 31 Rifle, CO 81650

RE: Nahcolite Project, Permit No. M-1983-194, TR-50 Reclamation Cost Estimate-Changes to Bond

Dear Mr. Daehling:

This reclamation cost update was in response to the technical revision request (TR-50) which was submitted on February 1, 2023. The Division is mandated to recalculate the reclamation cost estimate to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated with technical revision (TR-50) as compared to previous technical revision (TR-49) calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes.

Task	Form Used	Change	Justification
01a	Demo	+	Adjust pipeline amount. Previous total was 34,948 LF.
			Add 4,717 LF for 18H1V and 18H-IR-W wells.
			Remove 2,977 LF from recent P&A'd wells.
			New pipe total 36,688 LF of pipe. (Net +1,740LF and +2 hrs.)
02a	Borehole	-	Removal of P&A'd wells cement and bridge plug if applicable. 3M-TDR, 90-1, BG-1, DS-2, EX-2, IRI-8, DVPW-1(A), DVPW-1(B), IRI-9, and 16H-R.
			Add wells 18H-1V and 18H-IR-W
			Corrected/updated data based on revised well list from D&A response 2/8/2023.





05a	Dozer	+	Adjust pad grading from 44.13 ac to 54 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023. 54 ac @ 24" = 174, 240 CY
05b	Dozer	+	Adjust topsoiling pads from 44.13 ac to 54 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023. 54 ac @ 6" = 43,560 CY
05c	Reveg	+	Adjust pad reveg from 44.13 ac to 54 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023.
06a	Ripper	+	Adjust ripping roads from 3.76 ac to 4 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023.
06b	Dozer	+	Adjust topsoiling roads from 3.76 ac to 4 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023. 4 ac @ 6" = 3,227 CY
06c	Reveg	+	Adjust road reveg from 3.76 ac to 4 ac (Disturbed + Interim Rec) based on Well Pad & Road Acreage spreadsheet dated Feb 2023.

Please feel free to contact me with any further questions.

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

COST SUMMARY WORK

Т	ask descrip	otion:	TR-50 updates				
Site:	Nahcolite	e Project	Pe	rmit Action:	TR-50	Permit/Jol	o#: M1983194
<u>PI</u>		IDENTIFIC					
	Task #:		State:	Colorado		Abbreviation:	None
	Date:	2/10/2023	County:	Rio Blanco		Filename:	M194-ACY
	User:	ACY					
	Age	ency or organi	zation name: DI	RMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo of Plant, pipelines, powerlines and parking lot	DEMOLISH	1	82.00	\$2,400,776
02a	Borehole P&A	BOREHOLE] 1	610.00	\$608,864
03a	Regrade Process Ponds	DOZER	2	178.19	\$94,008
03b	Decompact Process Pond	RIPPER	2	6.85	\$3,894
03c	Topsoil Process Pond	DOZER	2	14.06	\$7,418
03d	Reveg Process Pond	REVEGE	1	28.50	\$46,361
04a	Regrade Plant Area	DOZER	2	23.69	\$12,498
04b	Decompact Plant Area	RIPPER	2	7.02	\$3,991
04c	Topsoil Plant Area	DOZER	2	7.58	\$4,001
04d	Reveg Plant Area	REVEGE	1	12.30	\$20,008
05a	Regrade Well Pads	DOZER	2	194.59	\$102,660
05b	Topsoil Well Pads	DOZER	2	39.96	\$21,081
05c	Reveg Well Pads	REVEGE	1	68.00	\$131,763
06a	Decompact Roads	RIPPER	2	3.21	\$1,830
06b	Topsoil roads	DOZER	2	2.47	\$1,301
06c	Reveg Roads	REVEGE	1	6.00	\$9,760
07a	Initial Mobilization	MOBILIZE	1	8.00	\$15,400
07b	Secondary Mobilization	MOBILIZE	1	8.00	\$2,405
		1300.42	\$3,488,019		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$70,458
Performance bond:	1.05	Total =	\$36,624
Job superintendent:	650.21	Total =	\$48,850
Profit:	10.00	Total =	\$348,802
		TOTAL O & P =	\$504,734
		CONTRACT AMOUNT (direct + O & P) =	\$3,992,753

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 5.23 4.00	Total = Total =	\$500 \$208,821 \$159,710
CONTINGENCY:	3.00	Total =	\$104,641
		TOTAL INDIRECT COST =	\$978,406

TOTAL BOND AMOUNT (direct + indirect) = ____\$4,466,425

DEMOLITION WORK

Т	ask description:	Demo of Plant, pipelines, p	owerlines and r	parking lot	
Site:	Nahcolite Project	Permit Action:	TR-50	Permit/.	Job#: <u>M1983194</u>
PROJEC	CT IDENTIFICATIO	<u>DN</u>			
Task #:	01A	State: Colorado		Abbreviation:	None
Date:	2/9/2023	County: Rio Blanco		Filename:	M194-01a
	ACY				

Location adjustment: 95.50 %

UNIT COSTS

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
NSI Plant	200'L x 227'W x 42.5'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,929,500.00	CF	\$0.84	\$1,618,850.50
Product Storage Dome	95'L x 95'W x 50'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	451,250.00	CF	\$0.84	\$378,598.75
Removal of NSI Plant Slab	200'L x 227'W x 8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	45,400.00	SF	\$1.61	\$73,184.80
Removal of Storage Dome Slab	95'L x 95'W x8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	9,025.00	SF	\$1.61	\$14,548.30
Scale Building	108'W x 18'L x 10'H	Plant (1S) demo./off-site disposal in approved landfill - Max. 30 mile haul	19,440.00	CF	\$0.80	\$15,493.68
Removal of Scale Building Slab	108'W x 18'L x 8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	1,944.00	SF	\$1.61	\$3,133.73
Tank Farm	30'W x 50'H	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	5.00	EA	\$760.00	\$3,800.00
Removal of Flagpole/Monument	70 SqFt	USER PROVIDED ITEM	70.00	Ft^2	\$5.00	\$350.00
Demolition of Screening and Magnet System	6'W x 18'L x 10'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,080.00	CF	\$0.84	\$906.12
Pipelines averaged to 10" diam	36,688 LF	Pipe, steel, welded connections - 10 in. diameter pipe	36,688.00	LF	\$11.04	\$405,035.52

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	82.00	(unadjusted):	\$2,513,901.40	location):	\$2,400,775.84

BOREHOLE SEALING WORK

,	Task description:	Borehole P	&A			
Site:	Nahcolite Project		Permit Action:	TR-50	Permit/J	lob#: <u>M1983194</u>
<u>PROJE</u>	CT IDENTIFICATION	N				
Task #: Date:		State: County:	Colorado Rio Blanco		Abbreviation: Filename:	None M194-02a
User:	ACY	·			-	
	Agency or organizat	ion name:	DRMS			

UNIT COSTS

Borehole	Sealing/Item Method						
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
89-1	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.55	\$9,029.85
89-2	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.55	\$7,864.35
89-3	Portland cement grout - 4 in. (labor, equip, materials)	4	347	347.00	LF	\$5.55	\$1,925.85
90-3	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.55	\$9,029.85
90-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.55	\$7,864.35
BG-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.55	\$9,029.85
DS-3	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.55	\$10,411.80
IRI-1	Portland cement grout - 4 in. (labor, equip, materials)	4	347	347.00	LF	\$5.55	\$1,925.85
IRI-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.55	\$7,864.35
IRI-5	Portland cement grout - 4 in. (labor, equip, materials)	4.1	347	347.00	LF	\$5.55	\$1,925.85
IRI-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.55	\$9,029.85
IRI-7	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.55	\$10,411.80
12H-I	Portland cement grout - 8 in. (labor, equip, materials)	7	2100	2,100.00	LF	\$7.03	\$14,763.00
12H-I Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$84.15	\$84.15
12H-R	Portland cement grout - 8	7	2100	2,100.00	LF	\$7.03	\$14,763.00

	in. (labor, equip,						
12H-R Bridge Plug	materials) PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$84.15	\$84.15
BG-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1639	1,639.00	LF	\$5.55	\$9,096.45
WSW-2	Portland cement grout - 8 in. (labor, equip, materials)	7	1460	1,460.00	LF	\$7.03	\$10,263.80
13H-RI-E (13H-R)	Portland cement grout - 8 in. (labor, equip, materials)	7	2100	2,100.00	LF	\$7.03	\$14,763.00
13H-RI-E Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$84.15	\$84.15
14H-RI-E (14H-R)	Portland cement grout - 8 in. (labor, equip, materials)	7	2110	2,110.00	LF	\$7.03	\$14,833.30
14H-RI-E Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$84.15	\$84.15
WSW-3	Portland cement grout - 8 in. (labor, equip, materials)	7	1420	1,420.00	LF	\$7.03	\$9,982.60
WSW-4	Portland cement grout - 8 in. (labor, equip, materials)	7	1431	1,431.00	LF	\$7.03	\$10,059.93
DS-8 (I, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.55	\$10,445.10
AG-1 (J, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1487	1,487.00	LF	\$5.55	\$8,252.85
BG-7 (K, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1593	1,593.00	LF	\$5.55	\$8,841.15
DS-9 (M, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1917	1,917.00	LF	\$5.55	\$10,639.35
DS-7	Portland cement grout - 4 in. (labor, equip, materials)	4	1897	1,897.00	LF	\$5.55	\$10,528.35
O-GWM-A (O, Phase 2)	Portland cement grout - 8 in. (labor, equip, materials)	7	1294	1,294.00	LF	\$7.03	\$9,096.82
DS-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.55	\$10,445.10
IRI-11	Portland cement grout - 4 in. (labor, equip, materials)	4	1550	1,550.00	LF	\$5.55	\$8,602.50
15H-I	Portland cement grout - 8 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$7.03	\$13,778.80
15H-1 Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$61.43	\$61.43
15H-RI (15H-R)	Portland cement grout - 8 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$7.03	\$13,778.80

15H-RI Bridge	PVC plug - 6 in.	6.4	1	1.00	EA	\$61.43	\$61.43
Plug	diameter borehole						
16H-I	Portland cement grout - 8 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$7.03	\$13,778.80
16H-I Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$61.43	\$61.43
17H-I	Portland cement grout - 8 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$7.03	\$13,778.80
17H-I Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$61.43	\$61.43
17H-R	Portland cement grout - 10 in. (labor, equip, materials)	9	2000	2,000.00	LF	\$9.75	\$19,500.00
17H-R Bridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$115.29	\$115.29
12H-IR	Portland cement grout - 10 in. (labor, equip, materials)	9	2100	2,100.00	LF	\$9.75	\$20,475.00
12H-IRBridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$115.29	\$115.29
13H-IR	Portland cement grout - 10 in. (labor, equip, materials)	9	2100	2,100.00	LF	\$9.75	\$20,475.00
13H-IR Bridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$115.29	\$115.29
15H-SSMW	Portland cement grout - 4 in. (labor, equip, materials)	4	1760	1,760.00	LF	\$5.55	\$9,768.00
17H-SSMW	Portland cement grout - 4 in. (labor, equip, materials)	4	1720	1,720.00	LF	\$5.55	\$9,546.00
DS-10	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.55	\$10,445.10
14H-1V	Portland cement grout - 10 in. (labor, equip, materials)	8.9	1945	1,945.00	LF	\$9.75	\$18,963.75
14H-1V Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$84.15	\$84.15
15H-1V	Portland cement grout - 10 in. (labor, equip, materials)	8.9	1898	1,898.00	LF	\$9.75	\$18,505.50
16H-1V	Portland cement grout - 10 in. (labor, equip, materials)	8.9	1976	1,976.00	LF	\$9.75	\$19,266.00
17H-1V	Portland cement grout - 10 in. (labor, equip, materials)	8.9	2100	2,100.00	LF	\$9.75	\$20,475.00
15H-IR-E	Portland cement grout - 10 in. (labor, equip, materials)	8.9	2135	2,135.00	LF	\$9.75	\$20,816.25
15H-IR-E Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$84.15	\$84.15
16H-IR-E	Portland cement grout - 10 in. (labor, equip, materials)	8.9	2131	2,131.00	LF	\$9.75	\$20,777.25

16H-IR-E Bridge	PVC plug - 8 in.	8.9	1	1.00	EA	\$84.15	\$84.15
Plug	diameter borehole						
17H-IR-E	Portland cement grout -	8.9	2138	2,138.00	LF	\$9.75	\$20,845.50
	10 in. (labor, equip,						
	materials)						
17H-IR-E Bridge	PVC plug - 8 in.	8.9	1	1.00	EA	\$84.15	\$84.15
Plug	diameter borehole						
BG-11	Portland cement grout - 4	4	1677	1,677.00	LF	\$5.55	\$9,307.35
	in. (labor, equip, materials)						
PA-1	Portland cement grout - 4	4	490	490.00	LF	\$5.55	\$2,719.50
	in. (labor, equip,						
	materials)						
AG-2	Portland cement grout - 4	4	1230	1,230.00	LF	\$5.55	\$6,826.50
	in. (labor, equip,						
	materials)						
BG-10	Portland cement grout - 4	4	1420	1,420.00	LF	\$5.55	\$7,881.00
	in. (labor, equip,						
	materials)						
17H-E SSMW	Portland cement grout - 4	4	1828	1,828.00	LF	\$5.55	\$10,145.40
	in. (labor, equip,						
	materials)						
18H-1V	Portland cement grout -	8.9	1972	172.00	LF	\$9.75	\$1,677.00
	10 in. (labor, equip,						
	materials)						
18H-1V Bridge	PVC plug - 8 in.	8.9	1	1.00	EA	\$84.15	\$84.15
Plug	diameter borehole						
18H-IR-W	Portland cement grout -	8.9	2278	2,278.00	LF	\$9.75	\$22,210.50
	10 in. (labor, equip,						
	materials)						
18H-IR-W Bridge	PVC plug - 8 in.	8.9	1	1.00	EA	\$84.15	\$84.15
Plug	diameter borehole						

 Job Hours:
 610.00

Total Cost: \$608,864.00

Page 1 of 2

BULLDOZER WORK

Task description:	Regrade Process	Ponus			
Nahcolite Project	Perm	nit Action:	TR-50	Permit/Job#:	M1983194
PROJECT IDENTIFI	CATION				
Task #: 03A Date: 2/10/2023 User: ACY	County:	Colorado Rio Blance	0	Abbreviation: Filename:	None M194-03a
Agency or organ	ization name: DR	MS			
HOURLY EQUIPME	NT COST				
Horsepower: 310 Blade Type: Sem Attachment: NA	ni-Universal er day				
Cost Breakdown:					
Ownership Cost/Hour:		\$124.85	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00 \$41.30	0 NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$263.78 \$527.56	\$11.50			
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>66,14</u> Swell factor: <u>1.115</u>	\$527.56 ITIES 17				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>66,14</u> Swell factor: <u>1.115</u>	\$527.56 <u>ITIES</u> ¹⁷				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>66,14</u> Swell factor: <u>1.115</u>	\$527.56 ITIES 47 54 LCY ne: <u>TR-50</u>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum	\$527.56 <u>ITIES</u> 7 54 LCY ne: <u>TR-50</u> factor: <u>Cat Handl</u>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell	\$527.56 <u>ITIES</u> 47 54 LCY he: <u>TR-50</u> factor: <u>Cat Handl</u> <u>'ION</u> 175 feet	 Dook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$527.56 ITIES 47 54 LCY he: TR-50 factor: Cat Handle TON 175 feet tion: 562.2 LCY/1	 pook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$527.56 ITIES 47 54 LCY he: TR-50 factor: Cat Handle TON 175 feet tion: 562.2 LCY/1	 pook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$527.56 ITIES 17 54 17 54 LCY he: TR-50 factor: Cat Handle TON 175 feet tion: 562.2 LCY/1 cription: Compace 0 %	 pook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient:	\$527.56 ITIES 17 5 54 LCY he: TR-50 factor: Cat Handl TON 175 feet tion: 562.2 LCY/2 cription: Compace 0 % 6,600 feet	 pook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction	\$527.56 ITIES 17 54 LCY he: TR-50 factor: Cat Handl TON 175 feet tion: 562.2 LCY/1 cription: Compac 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor	hr cted fill or en			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$527.56 ITIES 17 54 LCY he: TR-50 factor: Cat Handle TON 175 feet tion: 562.2 LCY// cription: Compace 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor Skill: 0.7	hr cted fill or en 			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 66,14 Swell factor: 1.115 Loose volume: 73,75 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction	\$527.56 ITIES 17 54 17 54 17 54 17 54 17 56 54 17 56 56 175 feet 562.2 LCY/1 cription: Compace 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor 5kill: 0.7 may 20,90	hr cted fill or en			

Job efficience	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.600	(FND-SF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigl	nt: 1.095	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.3681	
Adjusted unit production:	206.95 LCY/hr	
Adjusted fleet production:	413.9 LCY/hr	
-		

Fleet size:	2 Dozer(s)
Unit cost:	\$1.275/LCY

Total job time:	178.19 Hours
Total job cost:	\$94,008

BULLDOZER RIPPING WORK

	Task description:	Deco	mpact Process Pond						
Site	: Nahcolite Pro	ject	Permit Action:	TR-50	F	Permit/Job#	: <u>M19831</u>	94	
	PROJECT ID	ENTIFICATIO	<u>ON</u>						
	Task #: 03 Date: $2/1$ User: AC	0/2023	State: Colorado County: Rio Blanco)		previation: Filename:	None M194-03	b	
	Agency	or organization	name: DRMS						
	HOURLY EQ	UIPMENT CO	OST						
		Machine: Cat	D8T - 8SU hank Ripper	_	Horsepower: Shift Basis:		310 per day		
	Cost Develotore				Data Source:	(CRG)		
	Cost Breakdown	Ownership Co	st/Hour:	\$124.85	Utilization % NA				
		Operating Co		\$97.63	100	_			
		er Ownership Co per Operating Co		\$13.10 \$7.30	NA 100	_			
	Кірј	Operator Co		\$41.30	NA	_			
		Total Unit Co		\$284.18					
		Total Fleet Co	st/Hour: \$568	3.36					
	MATERIAL QUANTITIES Selected estimating method: Area								
	Alternate Method								
Seismic:	NA		Bank Volume:	NA	BCY		NA		
Area:	8.00	acres	Rip Depth (ft):	2.00		25,813		BCY or CCY	
		Source of estin	nated quantity: TR-42						
	HOURLY PR	DUCTION							
	Seismic:								
		S	Seismic Velocity:	NA	feet/sec	cond			
	Area:								
			e Ripping Depth:	2.56	feet/pa				
			e Ripping Width: Ripping Length:	7.08 100.00	feet/pa feet/pa				
		0	age Dozer Speed:	88.00	feet/mi				
			Maneuver Time:	0.25	minute				
		0	ion per unit area:	0.703	acres/h	-			
	Job Condition Co	prrection Factors							
	Un	adjusted Hourly	Unit Production:	0.703	Acres/l	nr			
			Site Altitude:	6,600	feet				
			Altitude Adj:	1.00	(CAT]				
			Job Efficiency: Net Correction:	0.83	(1 shift multipl	•			
			Hourly Unit Production: Hourly Fleet Production:	0.58	Acres/hr Acres/hr				
	JOB TIME AN	·							
	Fleet size:	2	Grader(s)	Total job time	- .	6.85	Ho	urs	
	_			,			110	<i>A</i> 1 0	
	Unit cost:	\$486.739	Per acre	Total job cos	a: <u> </u>	\$3,894			

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BULLDOZER WORK

Task description:	Topsoil Process Pond			
Nahcolite Project	Permit Action	n: <u>TR-50</u>	Permit/Job#:	M1983194
PROJECT IDENTIF	ICATION			
Task #: 03C	State: Colorad	lo	Abbreviation:	None
Date: 2/10/2023	County: Rio Bla	nco	Filename:	M194-03c
User: ACY			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine:Cat	D8T - 8SU			
Horsepower: 310				
••	ni-Universal			
Attachment: NA				
	er day			
Data Source: (CF	(G)			
Cost Breakdown:				
_		Utilization %		
Ownership Cost/Hour:	\$124.85			
Operating Cost/Hour:	\$97.63			
Ripper own. Cost/Hour:	\$0.00			
Ripper op. Cost/Hour:	\$0.00			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$41.30 \$263.78 \$527.56	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$263.78 \$527.56 ITIES	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume:15,32	\$263.78 \$527.56 ITIES 27	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.000	\$263.78 \$527.56 ITIES 27 0	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.000	\$263.78 \$527.56 ITIES 27	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.000	\$263.78 \$527.56 ITIES 27 0 27 LCY	0 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.00 Loose volume: 15,3	\$263.78 \$527.56 ITIES 27 0 27 LCY ne:19 ac @ 6" depth	0 NA 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,32 Swell factor: 1.000 Loose volume: 15,32 Source of estimated volum Source of estimated swell	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: <u>19 ac @ 6" depth</u> factor: <u>Cat Handbook</u>	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,33 Swell factor: 1.000 Loose volume: 15,33 Source of estimated volur Source of estimated volur HOURLY PRODUCT	\$263.78 \$527.56 ITIES 27 0 27 27 27 27 27 27 27 27 27 27	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1000 Loose volume: 15,3 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: <u>19 ac @ 6" depth</u> factor: <u>Cat Handbook</u> <u>150 feet</u>	0 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,33 Swell factor: 1.000 Loose volume: 15,33 Source of estimated volur Source of estimated volur HOURLY PRODUCT	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: <u>19 ac @ 6" depth</u> factor: <u>Cat Handbook</u> <u>150 feet</u>	0 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1000 Loose volume: 15,3 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook CION 250 feet ction: 634.3 LCY/hr			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.00 Loose volume: 15,3 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product 100	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook CION 250 feet ction: 634.3 LCY/hr			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,32 Swell factor: 1.000 Loose volume: 15,33 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook CION etion: 150 feet 634.3 LCY/hr cription: Loose stockpile 1			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3: Swell factor: 1.00 Loose volume: 15,3: Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook Cat Handbook Colspan="2">Cat Handbook Cat Handbook Colspan="2">Cat Handbook Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3: Swell factor: 1.000 Loose volume: 15,3: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	$\begin{array}{r} \$263.78 \\ \$527.56 \\ \hline \hline \textbf{ITIES} \\ \hline 27 \\ 0 \\ \hline 27 \\ 10 \\ \hline 27 \\ 10 \\ \hline 27 \\ 10 \\ \hline 27 \\ 27 \\$			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3: Swell factor: 1.000 Loose volume: 15,3: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average site altitude: Material weight: Weight description:	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook CION etion: 634.3 LCY/hr cription: Loose stockpile 1 0 % 6,600 feet 1,600 lbs/LCY Top Soil	 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.00 Loose volume: 15,3 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	\$263.78 \$527.56 ITIES 27 0 27 LCY ne: 19 ac @ 6" depth factor: Cat Handbook Cat Handbook Cat Handbook Cat Handbook Colspan="2">Cat Handbook Cat Handbook Cat Handbook Cat Handbook Colspan="2">Cat Handbook Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspa="2"Colspa="2"Colspan="2"Colspan="2"Colspa="2"Colspa="2"			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3; Swell factor: 1.000 Loose volume: 15,3; Source of estimated volur Source of estimated volur Source of estimated volur Materials consistency des Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{c c} \$263.78 \\ \$527.56 \\ \hline \hline ITIES \\ \hline 27 \\ \hline 0 \\ \hline 27 LCY \\ \hline ne: 19 ac @ 6" depth \\ \hline factor: Cat Handbook \\ \hline \hline Cat Handbook \\ \hline \hline CON \\ \hline cription: 634.3 LCY/hr \\ \hline cription: Loose stockpile 1 \\ \hline 0 \% \\ \hline 6,600 feet \\ \hline 1,600 lbs/LCY \\ \hline Top Soil \\ \hline Factor \\ \hline Skill: 0.750 \\ \hline \end{array}$)	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 15,3 Swell factor: 1.000 Loose volume: 15,3 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	$\begin{array}{c c} \$263.78 \\ \$527.56 \\ \hline \\ \hline \\ \hline \\ \$527.56 \\ \hline \\ \hline \\ \hline \\ \$527.56 \\ \hline \\ \hline \\ \hline \\ 17100 \\ \hline \\$		3)	

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 1.438	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.8593	
Adjusted unit production:	545.05 LCY/hr	
Adjusted fleet production:	1090.1 LCY/hr	
-		

Fleet size:	2 Dozer(s)
Unit cost:	\$0.484/LCY

Total job time:	14.06 Hours
Total job cost:	\$7,418

REVEGETATION WORK

Task description:	Reveg Process Pond	
te: Nahcolite Project	Permit Action: TR-50	Permit/Job#: <u>M1983194</u>
PROJECT IDENTIFIC		Abbassisticas Nores
Task #: $03D$	State: Colorado	Abbreviation: None
Date: 2/10/2023 User: ACY	County: <u>Rio Blanco</u>	Filename: M194-03d

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$407.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Crested Wheatgrass - Ephraim	4.00	18.37	\$17.30
Blue Wildrye - Arlington or Elkton	1.50	5.17	\$9.99
Russian Wildrye - Bozoisky	1.50	6.03	\$9.72
Hard Fescue - Discovery	1.00	12.97	\$2.93
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Yellow Sweet Clover - Madrid	0.50	2.98	\$1.41
Tall Wheatgrass - Jose	1.80	3.26	\$6.08
Thickspike Wheatgrass - Critana	4.30	15.20	\$29.56

Sweetvetch, Utah or Northern	0.10	0.05	\$7.50
Western Wheatgrass - Barton	1.50	3.79	\$10.50
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	18.00	86.97	\$111.29

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$3.04	\$6.08
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$848.80

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

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

	No. of Acres: Failure Rate: Work Items:	30%	Cost /Acre: Cost /Acre*: NG,MULCHING	
Initial Job Cost: \$3 Reseeding Job Cost: \$1 Total Job Cost: \$4 Job Hours: 28	10,698.67 46,361			

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BULLDOZER WORK

	Regrade Plant A	icu			
Nahcolite Project	Per	mit Action:	TR-50	Permit/Job#:	M1983194
PROJECT IDENTIF	ICATION				
Task #: 04A	State:	Colorado		Abbreviation:	None
Date: $2/10/2023$	County:	Rio Blanco	0	Filename:	M194-04a
User: ACY					
Agency or organ	nization name: DF	RMS			
HOURLY EQUIPME	ENT COST				
	2 D8T - 8SU				
Horsepower: 310					
•1	ni-Universal				
Attachment: NA Shift Basis: 1 p	er day				
Data Source: (CF	· ·				
<u></u>	(0)				
Cost Breakdown:		1	.		
Orum eachin Coast/Illeur		\$124.85	<u>Utilization %</u> NA		
Ownership Cost/Hour: Operating Cost/Hour:		\$124.83	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:	-	\$41.30	NA		
MATERIAL QUANT					
	29				
Initial Volume: 13,2 Swell factor: 111					
Swell factor: 1.11	5				
Swell factor:1.11Loose volume:14,7Source of estimated volume	5 50 LCY me: <u>8.2 ac @</u>				
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volum Source of estimated swell	5 50 LCY me: 8.2 ac @ 1 factor: Cat Hand				
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volum Source of estimated swell HOURLY PRODUCT	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> <u>FION</u>				
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volum Source of estimated swell	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> <u>CION</u> <u>150 feet</u>	book			
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> FION 150 feet ction: <u>634.3 LCY</u>	book /hr	 mbankment 0.9		
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Stance:	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> FION 150 feet ction: <u>634.3 LCY</u>	book /hr	 mbankment 0.9		
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volum Source of estimated volum Source of estimated swell MOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> FION ction: <u>150 feet</u> 634.3 LCY scription: <u>Compa</u> <u>0 %</u>	book /hr	mbankment 0.9		
Swell factor:1.11Loose volume:14,7Source of estimated volumSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency desAverage push gradient:Average site altitude:	5 50 LCY me: 8.2 ac @ I factor: Cat Hand $CION$ ction: 150 feet ction: 634.3 LCY cription: Compa $0 %$ 6,600 feet	book /hr	mbankment 0.9		
Swell factor:1.11Loose volume:14,7Source of estimated voluSource of estimated voluSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency desAverage push gradient:Average site altitude:Material weight:	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> CION ction: <u>150 feet</u> <u>634.3 LCY</u> scription: <u>Compa</u> <u>0 %</u> <u>6,600 feet</u> <u>2,100 lbs/LCY</u> <u>Earth - Loam</u>	book /hr			
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volu Source of estimated volu Source of estimated swell Mourly PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Operator	5 50 LCY me: <u>8.2 ac @</u> 1 factor: <u>Cat Hand</u> Filon Cat Hand Cat Hand Filon <u>150 feet</u> <u>634.3 LCY</u> <u>634.3 LCY</u> <u>84.2 ac @</u> <u>634.3 LCY</u> <u>634.3 LCY</u> <u>63600 feet</u> <u>63600 feet</u> <u>6</u>	/hr /hr icted fill or en			
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destance: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Operator	5 50 LCY me: 8.2 ac @ l factor: Cat Hand factor: Cat Hand filon 150 feet ction: 634.3 LCY/ scription: Compa 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor Skill: 0,0	/hr /hr 	Source (AVG.) (CAT HB))		
Swell factor: 1.11 Loose volume: 14,7 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator of Material consistency Dozing me	5 50 LCY me: 8.2 ac @ I factor: Cat Hand FION 150 feet ction: 634.3 LCY/ scription: Compa 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor Skill: 0.9 ency: 0.1	/hr /hr icted fill or en	Source (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:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4908	
Adjusted unit production: 3	11.31 LCY/hr	
Adjusted fleet production: 6	22.62 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.847/LCY

Total job time:	23.69 Hours
Total job cost:	\$12,498

BULLDOZER RIPPING WORK

	Task description:	Deco	ompact Plant Area				
Site:	Nahcolite Pro	ject	Permit Action:	TR-50	Permit/J	ob#: <u>M198319</u>)4
	PROJECT ID	ENTIFICATI	<u>ON</u>				
	Task #: 041 Date: $2/1$ User: AC	0/2023	State: Colorado County: Rio Blanco	,	Abbreviation Filenan)
		or organization	name: DRMS				
	HOURLY EQ	-					
		Machine: Cat	: D8T - 8SU hank Ripper	_	Horsepower: Shift Basis: Data Source:	310 1 per day (CRG)	
	Cost Breakdown	<u>.</u>					
		Ownership Co Operating Co		\$124.85 \$97.63	Utilization % NA 100		
	11	er Ownership C	ost/Hour:	\$13.10	NA		
	Ripj	per Operating Co Operator Co		\$7.30 \$41.30	100 NA		
		Total Unit C		\$284.18	1111		
		Total Fleet C	ost/Hour: \$568	.36			
	MATERIAL (DUANTITIES	Sele	cted estimating 1	method: Area		
	Alternate Method						
smic:	NA	<u></u>	Bank Volume:	NA	BCY	NA	
Area:	8.20	acres	Rip Depth (ft):	2.00	Volume: 26,459		BCY or CO
		Source of estin	mated quantity: TR-42				
	HOURLY PR	ODUCTION	· · ·				
	Seismic:	020011011					
	<u>Seisine:</u>		Seismic Velocity:	NA	feet/second		
	Area:						
			e Ripping Depth:	2.56	feet/pass		
			e Ripping Width: Ripping Length:	7.08 100.00	feet/pass feet/pass		
		0	age Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25	minutes/pass		
		Produc	tion per unit area:	0.703	acres/hour		
	Job Condition Co	prrection Factors	<u>}</u>				
	Un	adjusted Hourly	Unit Production:	0.703	Acres/hr		
			Site Altitude:	6,600	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
			Hourly Unit Production: Hourly Fleet Production:	0.58	Acres/hr Acres/hr		
	JOB TIME AN	·	fibility freet freeded.				
	Fleet size:	<u>2</u>	Grader(s)	Total job time	: 7.02	Hou	rs
	Unit cost:	\$486.739	Per acre	Total job cost			

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BULLDOZER WORK

Task description:	Topsoil Plant A	Area			
Nahcolite Project	P	ermit Action:	TR-50	Permit/Job#:	M1983194
PROJECT IDENTIE	FICATION				
Task #: 04C Date: 2/10/2023 User: ACY	State)	Abbreviation: Filename:	None M194-04c
Agency or orga	anization name: <u>l</u>	ORMS			
HOURLY EQUIPM	ENT COST				
	at D8T - 8SU				
Horsepower: 31			_		
Blade Type: Se Attachment: NA	emi-Universal		_		
	per day				
	RG)				
	(KU)				
Cost Breakdown:		1			
		(101)	<u>Utilization %</u>		
Ownership Cost/Hour:		\$124.85	NA		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$0.00 \$0.00	<u>NA</u> 0		
Ripper op. Cost/Hour:			-		
Operator Cost/Hour:		\$41.30	NA		
MATERIAL QUAN Initial Volume: 6,6					
Swell factor: 1.0	00				
Loose volume: 6,6	15 LCY				
Source of estimated volu Source of estimated swe		@ 6" depth ndbook			
HOURLY PRODUC					
	TION				
Average push distance:	150 feet	Y/hr			
	150 feet action: 634.3 LC	Y/hr e stockpile 1.2			
Average push distance: Unadjusted hourly produ	150 feet action: 634.3 LC				
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:					
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	150 feet 634.3 LC escription: Loos 0 % 6,600 feet				
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio	150 feet 634.3 LC escription: Loos 0 % 6,600 feet 1,600 lbs/LCY Top Soil n Factor	e stockpile 1.2			
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio Operator	150 feet 634.3 LC escription: Loos 0 % 6,600 feet 1,600 lbs/LCY Top Soil n Factor Skill:	e stockpile 1.2	(AVG.)		
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio Operator Material consis	150 feet action: 634.3 LC escription: Loos 0 % 6,600 feet 1,600 lbs/LCY Top Soil n Factor Skill: Skill:	e stockpile 1.2	(AVG.) (CAT HB)		
Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correctio Operator Material consis Dozing m	150 feet action: 634.3 LC escription: Loos 0 % 6,600 feet 1,600 lbs/LCY Top Soil n Factor Skill: Skill:	e stockpile 1.2	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6875	
Adjusted unit production: 4	36.08 LCY/hr	
Adjusted fleet production: 8	72.16 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.605/LCY

Total job time:	7.58 Hours
Total job cost:	\$4,001

REVEGETATION WORK

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$407.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Crested Wheatgrass - Ephraim	4.00	18.37	\$17.30
Blue Wildrye - Arlington or Elkton	1.50	5.17	\$9.99
Russian Wildrye - Bozoisky	1.50	6.03	\$9.72
Hard Fescue - Discovery	1.00	12.97	\$2.93
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Yellow Sweet Clover - Madrid	0.50	2.98	\$1.41
Tall Wheatgrass - Jose	1.80	3.26	\$6.08
Thickspike Wheatgrass - Critana	4.30	15.20	\$29.56

Sweetvetch, Utah or Northern	0.10	0.05	\$7.50
Western Wheatgrass - Barton	1.50	3.79	\$10.50
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	18.00	86.97	\$111.29

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$3.04	\$6.08
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$848.80

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

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

Estimatec *Selected Replanting	No. of Acres: l Failure Rate: g Work Items:	30%	Cost /Acre: Cost /Acre*: NG,MULCHING	
Initial Job Cost: _ Reseeding Job Cost: _ Total Job Cost: _ Job Hours: _	\$4,617.32 \$20,008			

Page 1 of 2

BULLDOZER WORK

Task description:	Regrade Well Pads				
Nahcolite Project	Permi	t Action:	TR-50	Permit/Job#:	M1983194
PROJECT IDENTIFI	CATION				
Task #: 05A Date: 2/10/2023 User: ACY		Colorado Rio Blanco)	Abbreviation: Filename:	None M194-05a
Agency or organ	ization name: DRM	IS			
HOURLY EQUIPME	NT COST				
Horsepower: 310 Blade Type: Sem Attachment: NA	D8T - 8SU i-Universal r day G)				
Cost Breakdown:	· · ·				
Ownership Cost/Hour:		\$124.85	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour: Operator Cost/Hour:		\$0.00 \$41.30	0 NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$263.78 \$527.56				
-	\$527.56				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115	\$527.56 <u>ITIES</u> 140				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115	\$527.56 ITIES 240 5 78 LCY ne:54 ac of pac		" depth		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum	\$527.56 <u>ITIES</u> 40 5 78 LCY he: 54 ac of pac factor: Cat Handbo <u>ION</u> 75 feet	ook	 " depth		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance:	\$527.56 <u>ITIES</u> 240 5 78 LCY ne:54 ac of pace factor:Cat Handbo <u>ION</u> <u>75 feet</u> 1,017.1 LCY/	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$527.56 <u>ITIES</u> 240 5 78 LCY ne:54 ac of pace factor:Cat Handbo <u>ION</u> <u>75 feet</u> 1,017.1 LCY/	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient:	\$527.56 ITIES 240 5 78 LCY ne: 54 ac of pac factor: Cat Handbo ION 10N 5 5 1,017.1 LCY/1 cription: Compacted 0 %	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude:	\$527.56 ITIES 40 5 78 LCY he: <u>54 ac of pac</u> factor: <u>Cat Handbo</u> ION tion: <u>1,017.1 LCY/1</u> cription: <u>Compacte</u> <u>0 %</u> 6,600 feet	hr			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$527.56 [TIES 240 5 78 LCY ne:54 ac of pac factor:Cat Handbo ION 75 feet 1,017.1 LCY/ cription:Compacte 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor_	hr ed fill or er 	nbankment 0.9		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$527.56 ITIES 240 5 78 LCY ne:54 ac of pace factor:Cat Handbo ION 100 100 100 100 100 100 100 10	hr ed fill or er - -	nbankment 0.9 <u>Source</u> (AVG.)		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 174,2 Swell factor: 1.115 Loose volume: 194,2 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$527.56 ITIES 240 5 78 LCY ne:54 ac of pace factor:Cat Handbo ION ION Cat Handbo ION Compacte 0 % 6,600 feet 2,100 lbs/LCY Earth - Loam Factor kill:0.75 ncy:0.90	ok hr ed fill or er - - 0 0	nbankment 0.9		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4908	
Adjusted unit production: 49	99.19 LCY/hr	
Adjusted fleet production: 99	98.38 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.528/LCY

Total job time:	194.59 Hours
Total job cost:	\$102,660

Page 1 of 2

BULLDOZER WORK

Task description:	-	Topsoil V		0				
: Nahcolite Projec	t		Perr	nit Action:	TR-50		Permit/Job#:	M1983194
PROJECT IDEN	TIFIC	CATION						
Task #: 05B			State:	Colorado			Abbreviation:	None
Date: 2/10/2	2023	С	ounty:	Rio Blance	0		Filename:	M194-05b
User: ACY								
Agency or	organiz	zation name	: DR	MS				
HOURLY EQUI	PMEN	T COST						
Basic Machine:	Cat I	08T - 8SU						
Horsepower:	310							
Blade Type:		-Universal						
Attachment:	NA							
Shift Basis:	1 per	,						
Data Source:	(CRC	J)						
Cost Breakdown:								
					<u>U</u>	tilization %		
Ownership Cost/H				\$124.85		NA		
Operating Cost/H				\$97.63		100		
Ripper own. Cost/H				\$0.00		NA		
Ripper op. Cost/H				\$0.00		0		
						NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	r:	\$263.78 \$527.56		\$41.30		NA		
Total unit Cost/Hou	r: ur:	\$527.56		\$41.30		INA		
Total unit Cost/Hou Total Fleet Cost/Ho	r: ur:	\$527.56 <u>TIES</u>		\$41.30				
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU	r: ur: <u>ANTI'</u> 43,560 1.000	\$527.56 TIES		\$41.30		INA		
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	r: _ ur: _ <u>ANTI'</u> 43,560	\$527.56 TIES		\$41.30 		INA		
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor: Loose volume:	r: ur: 43,560 1.000 43,560	\$527.56 TIES)) LCY	4 ac @ 6			INA		
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	r: ur: 43,560 1.000 43,560 volume	\$527.56 <u>TIES</u>))) LCY e:54	4 ac @ 6 at Handl	 " depth		INA		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	r: ur: 43,560 1.000 43,560 volume	\$527.56 <u>TIES</u>))) LCY e:54		 " depth				
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	r: ur: 43,560 1.000 43,560 volume swell f	\$527.56 <u>TIES</u>)))) LCY e: <u>5</u> 4 àctor: <u>C</u>		 " depth				
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	r: ur: 43,560 1.000 43,560 volume swell f	\$527.56 <u>TIES</u>)))))))))))))	at Handl	 " depth				
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar	r: ur: 43,560 1.000 43,560 volume swell f DUCTI ace:	\$527.56 TIES) DLCY e: 54 actor: C (ON 150	at Handl feet					
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	r: ur: 43,560 1.000 43,560 volume swell f DUCTI ace:	\$527.56 TIES) DLCY e: 54 actor: C (ON 150	at Handl					
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar	r:	\$527.56 TIES) DLCY e: <u>54</u> actor: <u>C</u> (ON ion: <u>150</u> 634	at Handl feet 3 LCY/					
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	r:	\$527.56 TIES) DLCY e: <u>54</u> actor: <u>C</u> (ON ion: <u>150</u> 634	at Handl feet 3 LCY/					
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	r:	\$527.56 TIES) D LCY e: 54 actor: C (ON ton: 150 634 ription: _	at Handl feet 3 LCY/					
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradie	r:	\$527.56 TIES) D LCY e: 54 actor: C (ON ion: 634 ription: 0 0 %	at Handl feet 3 LCY/ Loose s					
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude	r:	\$527.56 TIES) D LCY e: 54 actor: C C C C C C C C C C C C C C	at Handl feet 3 LCY/ Loose s					
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: 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:	r:	\$527.56 TIES) D LCY e: 54 cactor: C C C C C C C C C C C C C C	at Handl feet 3 LCY/ Loose s					
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct	r:	\$527.56 TIES) DLCY e: 54 cactor: C C C C C C C C C C C C C C	at Handl feet 3 LCY/ Loose s			<u>Source</u> (AVG.)		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Oper Material co	ANTT 43,560 1.000 43,560 volume swell f OUCTI oroducti ce: oroducti cy descr ent: ent: ent: - - - - - - - - - - - - -	\$527.56 TIES) D LCY e:2 actor:C (ON aon:150 aon:634 ription: 0 % 6,600 feet 1,600 lbs/I Top Soil Cactor cill: actor:	at Handl feet 3 LCY/ Loose s .CY 0.	hr tockpile 1.2		Source		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Oper Material co	r:	\$527.56 TIES D LCY e: 54 actor: C ON ion: 634 fiption: _ 0 % 6,600 feet 1,600 lbs/I Top Soil Cactor cill: cy: od:	at Handl feet 3 LCY// Loose s .CY 0.7 1.1 1.0	hr tockpile 1.2		<u>Source</u> (AVG.)		

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradien	it: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	ıt: 1.438	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n: 0.8593	
Adjusted unit production:	545.05 LCY/hr	
Adjusted fleet production:	1090.1 LCY/hr	
—		

Fleet size:	2 Dozer(s)
Unit cost:	\$0.484/LCY

Total job time:	39.96 Hours
Total job cost:	\$21,081

REVEGETATION WORK

e: Nahcolite Pr	roject	Pern	nit Action: <u>TR-50</u>	Permit/Jo	b#: <u>M198319</u> 4
PROJECT ID	ENTIFICA	ATION			
Date: 2/	5C /10/2023 ACY		Colorado Rio Blanco	Abbreviation: Filename:	None M194-05c

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$407.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Crested Wheatgrass - Ephraim	4.00	18.37	\$17.30
Blue Wildrye - Arlington or Elkton	1.50	5.17	\$9.99
Russian Wildrye - Bozoisky	1.50	6.03	\$9.72
Hard Fescue - Discovery	1.00	12.97	\$2.93
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Yellow Sweet Clover - Madrid	0.50	2.98	\$1.41
Tall Wheatgrass - Jose	1.80	3.26	\$6.08
Thickspike Wheatgrass - Critana	4.30	15.20	\$29.56

Sweetvetch, Utah or Northern	0.10	0.05	\$7.50
Western Wheatgrass - Barton	1.50	3.79	\$10.50
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	18.00	86.97	\$111.29

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$3.04	\$6.08
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$848.80

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

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

Estimated *Selected Replantin	No. of Acres: d Failure Rate: g Work Items:	30%	Cost /Acre: Cost /Acre*: NG,MULCHING	
Initial Job Cost: _ Reseeding Job Cost: _ Total Job Cost: _ Job Hours: _	\$30,406.75 \$131,763			

BULLDOZER RIPPING WORK

	Task description	Dec	ompact Roads				
Site	: Nahcolite Pro	ject	Permit Action	n: <u>TR-50</u>	Permit/Jo	b#: <u>M1983194</u>	
	PROJECT ID	ENTIFICAT	ION				
	$\begin{array}{c} \text{Task #:} & 06\\ \text{Date:} & 2/1\\ \text{User:} & AC \end{array}$	0/2023	State: Colorad County: Rio Bla		Abbreviation Filename		
		v or organization	nomat DDMS				
		C					
	HOURLY EQ						
	Basic Ripper Att		ut D8T - 8SU Shank Ripper		Horsepower: Shift Basis:	310 1 per day	
	Tupper I tu				Data Source:	(CRG)	
	Cost Breakdown	<u>:</u>					
		Ownership C	ost/Hour	\$124.85	Utilization % NA		
		Operating C		\$97.63	100		
	11	er Ownership (\$13.10	NA		
	Rip	per Operating C Operator C		\$7.30 \$41.30	100 NA		
		Total Unit C	-	\$284.18			
		Total Fleet C	Cost/Hour: \$	568.36			
	MATERIAL (~		mathady Araa		
	Alternate Method		<u>, , , , , , , , , , , , , , , , , , , </u>	Selected estimating	inetiou. Area		
a		<u>18.</u>	D. 1 W.1	NT A	DCV	NT A	
Seismic: Area:	NA 4.00	acres	Bank Volume Rip Depth (ft)		BCY Volume: 12,907	NA BCY or CC	
	Source of estimated quantity: <u>TR-50 D&A Provided Table</u> HOURLY PRODUCTION						
		ODUCTION					
	Seismic:		Seismic Velocity:	NA	feet/second		
	Area:		·				
	<u>Aica.</u>	Avera	ge Ripping Depth:	2.56	feet/pass		
			ge Ripping Width:	7.08	feet/pass		
			e Ripping Length: rage Dozer Speed:	<u> 150.00</u> <u> 88.00</u>	feet/pass feet/minute		
			e Maneuver Time:	0.25	minutes/pass		
		Produ	ction per unit area:	0.748	acres/hour		
	Job Condition Co	orrection Factor	<u>-S</u>				
	Ur	adjusted Hourl	y Unit Production:	0.748	Acres/hr		
			Site Altitude:	6,600	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency: Net Correction:	0.83	(1 shift/day) multiplier		
		Adjuster	Hourly Unit Production		Acres/hr		
			Hourly Fleet Production		Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	2	Grader(s)	Total job time	e: <u>3.22</u>	Hours	
	Unit cost:	\$457.481	Per acre	Total job cos	st: \$1,830		

Page 1 of 2

BULLDOZER WORK

Task description:	Topsoil roa	lus			
Nahcolite Project		Permit Action:	TR-50	Permit/Job#:	M1983194
PROJECT IDENTI	FICATION				
Task #: 06B	S	tate: Colorado		Abbreviation:	None
Date: $\frac{00D}{2/10/2023}$		inty: Rio Blanco)	Filename:	M194-06b
User: ACY			· · · · · · · · · · · · · · · · · · ·		
Agency or org	anization name:	DRMS			
HOURLY EQUIPM					
	at D8T - 8SU				
	10				
	emi-Universal				
	A				
	per day				
Data Source: (0	CRG)				
Cost Breakdown:					
o o		***	<u>Utilization %</u>		
Ownership Cost/Hour		\$124.85	NA		
Operating Cost/Hour		\$97.63	100 NA		
Ripper own. Cost/Hour		\$0.00 \$0.00	<u>NA</u> 0		
Dimmon on Cont/Horn	•	\$0.00	0		
Ripper op. Cost/Hour		\$41.20	NT A		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour:	\$263.78 \$527.56	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	: \$263.78 \$527.56 TITIES	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume:3,2	: \$263.78 \$527.56 TITIES 227	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>3,2</u> Swell factor: <u>1.0</u>	: \$263.78 \$ 527.56 (TITIES) 227 000	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2	: \$263.78 \$527.56 TITIES 227 000 227 LCY		NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>3,2</u> Swell factor: <u>1.0</u> Loose volume: <u>3,2</u> Source of estimated vol	:	c @ 6" depth	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2	:		NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated swe	:	c @ 6" depth	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated swo HOURLY PRODUC	:	c @ 6" depth Handbook	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	: \$263.78 \$527.56 [TITIES 227 200 227 LCY ume: 227 LCY ume: 227 LCY ume: 227 LCY ume: 216 factor: 2150 factor	c @ 6" depth Handbook	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated swo HOURLY PRODUC	: \$263.78 \$527.56 [TITIES 227 200 227 LCY ume: 227 LCY ume: 227 LCY ume: 227 LCY ume: 216 factor: 2150 factor	c @ 6" depth Handbook	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	$\frac{\$263.78}{\$527.56}$ $\frac{\textbf{TITIES}}{\$527.56}$ $\frac{227}{000}$ $\frac{227}{227} \text{ LCY}$ $\text{ume:} \qquad 4 \text{ ad} \\ \text{cell factor:} \qquad \hline \text{Cat} \\ \text{cat} \\ \frac{150 \text{ fe}}{634.3}$	c @ 6" depth Handbook			
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod	$\frac{\$263.78}{\$527.56}$ $\frac{\textbf{TITIES}}{\$527.56}$ $\frac{227}{000}$ $\frac{227}{227} \text{ LCY}$ $\text{ume:} \qquad 4 \text{ ad} \\ \text{cell factor:} \qquad \hline \text{Cat} \\ \text{cat} \\ \frac{150 \text{ fe}}{634.3}$	c @ 6" depth Handbook eet LCY/hr			
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	$\frac{\$263.78}{\$527.56}$ $\frac{\$27}{2000}$ $\frac{227}{227}$ $\frac{4 \text{ ad}}{227}$ $\frac{4 \text{ ad}}{227}$ $\frac{150 \text{ fd}}{634.3}$ $\frac{150 \text{ fd}}{634.3}$ $\frac{150 \text{ fd}}{634.3}$	c @ 6" depth Handbook eet LCY/hr	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>3,2</u> Swell factor: <u>1.0</u> Loose volume: <u>3,2</u> Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	$ \begin{array}{c} $	c @ 6" depth Handbook eet LCY/hr .oose stockpile 1.2	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	$ \begin{array}{c} $	c @ 6" depth Handbook eet LCY/hr .oose stockpile 1.2	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{c} & \\ & \\ & \\ & \\ & \\ \hline \\ \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \\ \hline \hline$	eet LCY/hr .oose stockpile 1.2	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average site altitude: Material weight: Weight description: Job Condition Correction Operato	$\begin{array}{c} & \\ & \\ & \\ & \\ \hline \\ \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ \\ & \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \hline \hline \hline \hline \\ \hline \hline$	eet LCY/hr .oose stockpile 1.2			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: <u>Job Condition Correction</u> Operaton Material consi	:	eet LCY/hr oose stockpile 1.2			
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 3,2 Swell factor: 1.0 Loose volume: 3,2 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operato Material consi Dozing n	:	eet LCY/hr .oose stockpile 1.2			

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradien	it: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	it: 1.438	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n: 1.0312	
Adjusted unit production:	654.09 LCY/hr	
Adjusted fleet production:	1308.18 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.403/LCY

Total job time:	2.47 Hours
Total job cost:	\$1,301

REVEGETATION WORK

te:	Nahcolite Project	Permit Action: TR-50	Permit/Job#: M1983194
<u>PR</u>	OJECT IDENTIFI	CATION	
	Task #: 06C	State: Colorado	Abbreviation: None
	1 usk //. 0000		
	Date: $2/10/2023$	County: Rio Blanco	Filename: M194-06c

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$407.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Crested Wheatgrass - Ephraim	4.00	18.37	\$17.30
Blue Wildrye - Arlington or Elkton	1.50	5.17	\$9.99
Russian Wildrye - Bozoisky	1.50	6.03	\$9.72
Hard Fescue - Discovery	1.00	12.97	\$2.93
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Yellow Sweet Clover - Madrid	0.50	2.98	\$1.41
Tall Wheatgrass - Jose	1.80	3.26	\$6.08
Thickspike Wheatgrass - Critana	4.30	15.20	\$29.56

Sweetvetch, Utah or Northern	0.10	0.05	\$7.50
Western Wheatgrass - Barton	1.50	3.79	\$10.50
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	18.00	86.97	\$111.29

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$3.04	\$6.08
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$848.80

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

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

	No. of Acres: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acr <u>e*:</u> IG,MULCHING	
Initial Job Cost:	\$7,507.84		
Reseeding Job Cost:	\$2,252.35		
Total Job Cost:	\$9,760		
Job Hours:	6.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: <u>Ini</u> t	ial Mobilization					
: Nahcolite Pr	oject	Permit	Action: TR-5)		Permit/Job#: <u>M</u>	1983194
PROJECT IDI	ENTIFICATI	<u>ON</u>					
$\begin{array}{c} \text{Task #:} \underline{07} \\ \text{Date:} \underline{2/} \\ \text{User:} \underline{A} \end{array}$	10/2023		olorado o Blanco			eviation: None ilename: M194	
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
Tan	ak Tractor Doco	rintion. CENE	DIC ON HIGH		Shift ba Cost Data Sout	i	ta
	ck Tractor Desc ck Trailer Desc		ENERIC FOLD	400 HF	(2ND HALF,	2006) ROP DECK EQU	
Cost Breakdown:			1	KAILEK	(251, 501, Al	ND 1001)	
Available Rig	Capacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownershi	ip Cost/Hour:	\$15.25	\$23.06	\$	37.58		
	ng Cost/Hour:	\$25.26	\$30.83		51.41		
	or Cost/Hour:	\$27.71	\$27.71		27.71		
	er Cost/Hour:	\$0.00	\$20.22		20.22		
Total Un	it Cost/Hour:	\$68.22	\$101.82	\$	136.92		
NON ROADA	BLE EQUIPN	MENT:					
Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$137.95	\$136.92	2	\$549.74	\$273.84	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
	28.74	\$127.07	\$101.82	1	\$228.89	\$101.82	\$250.00
Grove RT650E, 105', 45.4 MT				1	¢104.10	\$68.22	\$250.00
105', 45.4 MT Broderson IC-200 2F, 45', 13.6MT		\$35.88	\$68.22	1	\$104.10		
105', 45.4 MT Broderson IC-200		\$35.88 \$110.45 \$153.23	\$68.22 \$136.92 \$101.82	1	\$104.10 \$247.37 \$255.05	\$136.92 \$101.82	\$250.00 \$250.00 \$250.00

Subtotals: \$1,542.63 \$819.06 \$2,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$69.59	1	\$69.59	\$69.59
Generic 12-18 cy, 6x4	\$113.40	3	\$340.20	\$340.20

CIRCES Cost Estimating Software

Subtotals:	\$409.79	\$409.79
EQUIPMENT HAUL DISTANCE and Time		
Nearest Major City or Town within project area region:	RIFLE	
Total one-way travel distance:	60.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$14,170.33	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$1,229.37	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.50	1.50
Return Time (Hours):	1.50	1.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	4.00	3.00

Total job time:	8.00	Hours
Total job cost:	\$15,400	_

EQUIPMENT MOBILIZATION/DEMOBILIZATION

		tion				
ite Project	Permit	Action: TR-50)	I	Permit/Job#: <u>N</u>	11983194
T IDENTIFICA	<u>FION</u>					
: 07B	State: Co	olorado		Abbre	viation: None	
: 2/10/2023						4-07b
: ACY	_					
gency or organizati	on name: DRMS					
ENT TRANSPO	<u>RT RIG COST</u>					
				Shift ba	sis: 1 per da	ay
			C			
True als True atom Da	center CENE					
Truck Tractor De	scription: GENE	RIC ON-HIGH				L POWERED,
Truch Trucilor Do	cominition:	ENEDIC EOLD			,	IDMENT
Truck Trailer De	scription: G				-	IPMENI
		1	KAILEK	231, 301, AP	D 1001)	
down:						
e Rig Capacities	0-25 Tons	26-50 Tons	51+	Tons		
e Rig Capacities	0-25 Tons \$15.25	26-50 Tons \$23.06		Tons 7.58		
nership Cost/Hour:	\$15.25	\$23.06	\$3	7.58		
vnership Cost/Hour: perating Cost/Hour:	\$15.25 \$25.26	\$23.06 \$30.83	\$3 \$5	7.58 1.41		
vnership Cost/Hour: perating Cost/Hour: Dperator Cost/Hour:	\$15.25 \$25.26 \$27.71	\$23.06 \$30.83 \$27.71	\$3 \$5 \$2	7.58		
vnership Cost/Hour: perating Cost/Hour:	\$15.25 \$25.26 \$27.71 \$0.00	\$23.06 \$30.83	\$3 \$5 \$2 \$2 \$2	7.58 1.41 7.71		
/nership Cost/Hour: perating Cost/Hour: Dperator Cost/Hour: Helper Cost/Hour:	\$15.25 \$25.26 \$27.71 \$0.00	\$23.06 \$30.83 \$27.71 \$20.22	\$3 \$5 \$2 \$2 \$2	7.58 1.41 7.71 0.22		
/nership Cost/Hour: perating Cost/Hour: Dperator Cost/Hour: Helper Cost/Hour:	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22	\$23.06 \$30.83 \$27.71 \$20.22	\$3 \$5 \$2 \$2 \$2	7.58 1.41 7.71 0.22		
Anership Cost/Hour: perating Cost/Hour: Deerator Cost/Hour: Helper Cost/Hour: Natal Unit Cost/Hour: ADABLE EQUI	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 PMENT:	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82	\$3 \$5 \$2 \$2 \$1	7.58 1.41 7.71 0.22 36.92	Return Trin	DOT Permit
vnership Cost/Hour: perating Cost/Hour: Operator Cost/Hour: Helper Cost/Hour: otal Unit Cost/Hour: ADABLE EQUII Weight/	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 PMENT: Owner ship	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig	\$3 \$5 \$2 \$2 \$1 \$1 Fleet	7.58 1.41 7.71 0.22 36.92 Haul Trip	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
vnership Cost/Hour: perating Cost/Hour: Operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUII Weight/ on Unit	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 PMENT: Owner ship Cost/hr/ unit	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	\$3 \$5 \$2 \$2 \$1	7.58 1.41 7.71 0.22 36.92 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
vnership Cost/Hour: perating Cost/Hour: Derator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUII Weight/ on Unit (TONS)	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 PMENT: Owner ship Cost/hr/ unit	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	\$3 \$5 \$2 \$2 \$1 \$1 Fleet Size	7.58 1.41 7.71 0.22 36.92 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
vnership Cost/Hour: perating Cost/Hour: Operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUII Weight/ on Unit	\$15.25 \$25.26 \$27.71 \$0.00 \$68.22 PMENT: Owner ship Cost/hr/ unit	\$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	\$3 \$5 \$2 \$2 \$1 \$1 Fleet	7.58 1.41 7.71 0.22 36.92 Haul Trip Cost/hr/		
	: 07B : 2/10/2023 : ACY agency or organizati ENT TRANSPO Truck Tractor De Truck Trailer De	: 2/10/2023 County: Ri : ACY agency or organization name: DRMS ENT TRANSPORT RIG COST Truck Tractor Description: GENE Truck Trailer Description: G	: 07B State: Colorado : 2/10/2023 County: Rio Blanco : ACY DRMS agency or organization name: DRMS ENT TRANSPORT RIG COST Truck Tractor Description: GENERIC ON-HIGHY Truck Trailer Description: GENERIC FOLD 1 1	: 07B State: Colorado : 2/10/2023 County: Rio Blanco : ACY Blanco agency or organization name: DRMS ENT TRANSPORT RIG COST County: Truck Tractor Description: GENERIC ON-HIGHWAY TRU400 HP Truck Trailer Description: GENERIC FOLDING GOO TRAILER (: 07B State: Colorado Abbre : 2/10/2023 County: Rio Blanco Fi agency or organization name: DRMS ENT TRANSPORT RIG COST Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTO 400 HP (2ND HALF, Truck Trailer Description: GENERIC FOLDING GOOSENECK, DR TRAILER (25T, 50T, AN	: 07B State: Colorado Abbreviation: None : 2/10/2023 County: Rio Blanco Filename: M194 : ACY State: DRMS DRMS State: 1 per da agency or organization name: DRMS Shift basis: 1 per da ENT TRANSPORT RIG COST Shift basis: 1 per da Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESE 400 HP (2ND HALF, 2006) 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQU TRAILER (25T, 50T, AND 100T) TRAILER (25T, 50T, AND 100T)

Subtotals: **\$157.48 \$136.44 \$500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$69.59	1	\$69.59	\$69.59
		Subtotals:	\$69.59	\$69.59

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	RIFLE 60.00 40.00	miles
Total Non-Roadable Mob/Demob Cost *	\$2,196.72	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$208.77	

Transportation Cycle Time:

Roadable Equipment 1.50 0.50	Roadable Equipment 1.50 1.50 NA
0.50	NA
4.00	3.00
	Equipment 1.50 1.50 0.50 0.50

JOB TIME AND COST

Total job time: **8.00** Hours

Total job cost: \$2,405