COAL BOND COMPLIANCE INSPECTION

 Mine
 Peabody Sage Creek
 Permittee
 Peabody Sage Creek Mining

 Permit No.
 C2009087
 Operator
 Miranda Kawcak

 Date
 17 June 2025
 Inspector
 R. Reilley



Photo 1: Overview of the entrance area from above Pond 2.

<u>Part 1 - Contemporaneous Reclamation</u> - To be completed at least annually.

Compare the following field conditions to approved plans using the reclamation cost estimate, mine plan/operations plan maps, post-mining topography maps, and maps from annual reclamation reports, etc. Write a brief description of any observed discrepancies.

The Peabody Sage Creek site is an underground mine and currently rests in temporary cessation. The site in its current state adheres to the approved permit.

1. Number of mine shafts, and/or adits. open pits, and portals.

The portal is sealed. There are no open pits, adits or shafts present at the site.

- 1.a. Approximate dimensions of pits/openings. NA all openings have been sealed.
- 2. Number of spoil ridges at each pit, or time elapsed since the pit was last active. NA, spoil ridges have all been bond released and are no longer part of the active permit.
- 3. Are there existing subsidence features that require backfilling and grading?

 Over the course of my oversight duties at Peabody Sage Creek Mine no subsidence features have been identified.
- 4. List refuse areas and their locations. NA, no refuse areas are present at the site.

Topsoil

- 1. How large is the area ahead of the active mining area where topsoil has been removed?

 NA, this mine site is in temporary cessation. As this is an underground mine site only topsoil piles for pond reclamation and pads are present.
- 2. What is the approximate area of graded areas where topsoil has not been redistributed? NA, no reclamation is currently underway.
- 3. List Topsoil stockpiles and their locations.

 Approximately 140,000 cubic yards are stockpiled at the South end of the site as per map 2.05.3-M1A. Most topsoil stockpiles are associated with ponds, pads and portal excavation.

Revegetation

1. How much area ahead of the pit and topsoil removal areas has been brushed? NA, the site is an underground mine and in temporary cessation.

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<u>Part 2 - Aerial Inspection</u> - To be completed at least once annually.

Date of Photograph: 26 March 2025

Images taken by H. Ridley from State Patrol Plane.

Compare the following to the approved permit application maps, text, and the reclamation cost estimate. Describe any inconsistencies.

1. Number and area of pits or mine openings, mine benches, stockpile/storage pads. The site is inactive. There is one portal that has been sealed. Topsoil stockpile comprises approximately 140,000 cubic yards as per the South End Map. Several storage pads comprise equipment stored for use at other Peabody sites.



Photo 2: Overview of some of the facilities buildings, portal bone yards and ponds.

- 2. Location/progression of pit areas.
- 3. Number of spoil ridges at each pit. NA.

- Area stripped ahead of pit areas.
 NA.
- 5. Number of buildings and other structures.
- 6. In total, 136 structures are present on the site comprising buildings, pads and culverts. There are 66 structures in addition to numerous culverts depicted on the two facilities maps:
 - o Map M1B Mine Facilities North End
 - o Map M1A Mine Facilities South End
 - There are several ditches throughout the site. Ditches and culverts are also depicted on Map M4, the Drainage and Sediment Control Plan Map. Culverts are listed in Addendum 2.05.3 E2.A-1 on the Summary Table Operational Culvert Schedule. Culverts associated with permanent roads will be left as permanent structures and approximately 12 culverts will be removed as per the CIRCES estimate.



Photo 3: Overview of some of the facilities buildings, ponds and haul road.

7. Offsite/remote facilities.

NA

8. Ponds and Diversions

Diversion ditches and ponds are illustrated on *Map M4*, *the Drainage and Sediment Control Plan Map*. The permit comprises SEDCAd demonstrations for the 10 and 25 year 24 hour events for the various ponds. Field inspections over the course of the 2024 and 2025 field season verified the condition and construction material of the ditches, ponds and spillways and found the structures to be functioning adequately.



Photo 4: Overview of the Pond System.

- Roads (light use, access and haul roads).
 Haul road and access road to the Portal and ponds are permanent facilities.
- 10. Location and approximate size of coal stockpiles. NA

COAL BOND COMPLIANCE INSPECTION

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Permit No.	C2009087	Operator	Miranda Kawcak
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Part 3 - Support Facilities/Hydrologic Structures -To be completed at Permit Renewal and Midterm

- 1. Verify that all roads are documented in the permit. If not, list all undocumented roads and their approximate width and length. Verify the type of surfacing used on each road (gravel, asphalt pavement, etc.)
 - All haul roads are documented in the permit and are gravel covered roads.
- 2. Verify that all culverts are documented in the permit. If not, list their diameter and length.
- O All culverts are documented in the permit. The majority of culverts comprise road culverts and will remain in place once reclamation is completed. All road culverts were surveyed and exist as documented. Some culverts have been removed in the course of reclamation activities. Culverts are listed in Addendum 2.05.3 E2.A-1 culverts are also depicted on *Map M4*, the Drainage and Sediment Control Plan Map.
- 3. List the location, type of opening (drift, shaft, incline), and dimensions of all mine openings. NA
- 4. Verify that all drill holes, bore holes, degas wells, etc, are documented in the permit. If not, list the type of opening, its location, diameter, and depth. Document dimensions of any structures associated.
 - Wells, boreholes, and degas wells are documented in the permit.
- List all offsite remote structures their composition, and dimensions. (Example: ventilation fans, weather stations, rail loops, loadouts).
 NA
- 6. List all sedimentation ponds, impoundments, and their locations. Document the type and the approximate dimensions of each structure.
 - o Ponds, stock ponds, channels, and culverts are depicted on *Map M4*, *the Drainage and Sediment Control Plan Map*. Culverts are listed in Addendum 2.05.3 E2.A-1 on the *Summary Table Operational Culvert Schedule*.

Pond	Pond
Pond 004	Upper Sump
Pond 002	Lower Sump
Pond 003	PECOCO Pond

7. Are there stock tanks or dozer basins on site? If so, what is their average size and aerial density.

Yes, sumps and stock ponds are depicted on Map M4, the Drainage and Sediment Control Plan Map.

Mine	Peabody Sage Creek	Permittee	Peabody Sage Creek Mining LLC_
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<u>Part 4 – Structures and Facilities</u> - Completed at Permit Renewal and Midterm



Photo 5: Water Tank.

1. List all structures, their composition, rough dimensions, and whether or not they are on concrete foundations and/or footings.

There are 136 structures on the site that comprise building, pads, and culverts. These are detailed in the See Structure Appendices and comprise CIRCES demolition Tasks 110 and 111. Culverts are listed in the *Summary Table Operational Culvert Schedule* in Addendum 2.05.3 E2.A-1, attached to this report.



Photo 6: Sealed Portal area and conveyor.

- 2. List the amounts and types of materials on site which may be costly to remove (Examples: soiled solvents, waste oils [metal laden], hydraulic fluids, antifreeze, etc.) and types of containers (Examples: 55-gallon drums, 5-gallon bucket, 100-lb. sacks, etc.). Inquire as to whether any of these materials are stored underground, and document accordingly. No solvents or hazardous were found to exist on the site. Several barrels were identified containing grease/oily rags and other nonhazardous waste. Other items observed are identified in the April 2025 complete inspection conducted by DRMS. No hazardous waste was noted at the time of inspection.
- List the number and volume of any PCB or PCB contaminated transformers. If no evidence
 of "PCB Free" certification is found, and operator cannot produce documentation during
 inspection, list all transformers and volumes.
 Transformers are present at the site. All transformers are PCB free.
- 4. Give the location, area, and **rough** volume of all equipment storage and facilities areas on site. There are various bone yards and equipment storage structures around the site. The volume of all buildings to be demolished is considered in demo tasks 110 and 111. These demo tasks comprise costs for all items to be demolished, i.e. buildings, tanks, pads, footers etc.



Photo 7: One of the bone yards.

- 5. List the location of any buried fuel tanks or fuel lines. If there are buried tanks, inquire about the volume of them.
 - NA. All tanks are stationed above ground.
- 6. Briefly describe any factors that might complicate reclamation activities (Examples: restricted roads or bridges to access the site, utility corridors, transportation corridors, confined work areas, low wet areas, overburden problems, etc.)
 - The site is in temporary cessation and no restricted bridges, roads or utility corridors are present on site. Various fuel and oil tanks exist throughout the site and the costs for inert transportation has been considered in the reclamation cost estimate for each of the tanks at the site.

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TRUCK/LOADER TEAM WORK

ite: Peabody Sage C	reek Mine	Permi	t Actio	n: BondRevie	ew	Permit/Job#	#: <u>C200908</u>	7
User: RAR	//2024 (County: R	Colorad Routt	0	Abi		None BondReview	7
	organization nan		S		G1 : 6: 1	. 1 1		
HOURLY EQUIF	MENI COSI	•				sis: 1 per day		
	ruck Loader Tear	m Truck:	Cat 7	uipment Descri	iption			
1.	ruck Loader Tear	-Loader:	CAT					
Suppo	ort Equipment -L			10T - 10SU				
		mp Area:	NA					
Road Ma	intenance –Moto	<u> </u>	NA	Tanker, 10,00	0 C -1			
	- w a	ter Truck:	wate	r 1 anker, 10,00	o Gai.			
Cost Breakdown:	Truck/Loa	der Team		Support 1	Equipment	Maint	tenance Equi	pmen
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water	
Itilization-machine:	100		95	100	NA	N	A	2:
wnership cost/hour:	\$116.19	\$131	.26	\$257.39	NA	N	A \$1	111.6
Operating cost/hour:	\$85.60	\$95	.11	\$196.93	NA	N	A S	\$29.6
%Utilization-riper:	NA		0	NA	NA	N	A	N/
pper own. cost/hour:	NA	\$0	.00	\$0.00	NA	N	A	\$0.00
ipper op. cost/hour:	NA	\$0	.00	\$0.00	NA	N	A	\$0.00
Operator cost/hour:	\$25.24	\$36	5.85	\$38.59	NA	N	A S	\$21.12
Unit Subtotals:	\$227.03	\$263	.23	\$492.91	NA	N	A \$1	162.40
Number of Units:	4		2	1	0		0	1
Group Subtotals:	Work:	\$1,434.58		Support:	\$492.91	Mair	nt: \$162.40)
MATERIAL QUA Initial volume Loose volume	ANTITIES : _291,017		CCY LCY	Swell	factor: 1.125			
Sou	rce of estimated	volume:	Divisio	on of Reclamati	on, Mining & Sa	fetv		
	of estimated swe			ndbook		·J		
	Material Purcha		\$0.00					
	То	tal Cost:	\$0.00					
HOURLY PROD	DUCTION							
Truck Capacity: Truck Payload (weig								

Decomposed rock - 25% Rock, 75% Earth

Pounds

LCY

Description: Rated Payload:

Payload Capacity:

82,000

30.94

Struck Volume: 21.60 Heaped Volume: 31.70 LCY Average Volume: 26.65 **LCY** Adjusted Volume: 30.94 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	9.200	LCY (heaped)
Bucket Fill Factor:	0.825	Blasted rock - avg. blasted (75 - 90%) 0.825
Adjusted Capacity:	7.590	LCY

Job Condition Corrections:

Site Altitude (ft.): 6800 feet

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

Loading Tool Cycle Time:	Number of	f Loading Tool Passes Required	d to Fill	4	passes
Excavators and Front Shovels:			Truck:		_
Machine Cycle Time vs. Job Condition Selected Value within this Base	_	NA NA			
Track Loaders - Material Desc	cription:				
Cycle Time Elements (min.):					

Dump: 0.100 Load: NA Maneuver: NA

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, minutes 0.575 maneuver):

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.060	minutes

Net Cycle Time Adjustment: minutes Adjusted Loader Cycle Time: 0.515 minutes Net Load Time per Truck: 1.645 minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.645	Minutes	Adjusted for site altitude:	1.645	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

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Haul Route:

	• •					
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	950.00	-5.00	3.00	-2.00	3893	0.294

				Haul Time:	0.294	minutes
Return Rou	ıte:					
Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	950.00	5.00	3.00	8.00	2120	0.572

Return Time: 0.572 minutes
Total Truck Cycle Time: 4.111 minutes

Loading Tool unit					
Production	811.40	LCY/Hour	Adjusted for job efficiency:	673.46	LCY/Hour
Truck Unit Production					
	443.10	LCY/Hour	Adjusted for job efficiency:	367.78	LCY/Hour
Optimal No. of Trucks:	2	Truck(s)	Selected Number of Trucks:	2	Truck(s)

Adjusted hourly truck team production: 735.55 LCY/Hour Adjusted single truck/loader team production: 673.46 LCY/Hour Adjusted multiple truck/loader team production: 1,346.93 LCY/Hour

JOB TIME AND COST

Fleet size:	2	Team(s)	Total job time:	243.07	_ Hours
Unit cost:	\$1.552	_ /LCY	Total job cost:	\$507,983	_

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TRUCK/LOADER TEAM WORK

Haul Backfill Material from Utility Pad Area to Portal Face-

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 12/18/2024 County: Routt Filename: BondReview

User: RAR

Task description:

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	NA
Road Maintenance – Motor Grader:	NA
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown</u>: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump	Motor	Water
				Area	Grader	Truck
%Utilization- machine:	100	95	100	NA	NA	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	NA	NA	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	NA	NA	\$29.61
%Utilization- riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	NA	NA	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	NA	NA	\$162.40
Number of Units:	6	3	1	0	0	1
Group Subtotals:	Work:	\$2,151.87	Support:	\$492.91	Maint:	\$162.40

Total work team cost/hour: \$2,807.18

Initial volume: 183,389 CCY Swell factor: 1.125

Loose volume: 206,313 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00
Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,650 Pounds/LCY

Description: Decomposed rock - 25% Rock, 75% Earth

Rated Payload: 82,000 Pounds Payload Capacity: 30.94 LCY

Truck Bed (volume) Basis:

Struck Volume:21.60LCYHeaped Volume:31.70LCYAverage Volume:26.65LCYAdjusted Volume:30.94LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825

Adjusted Capacity: **7.590** LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

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

<u>Loading Tool Cycle Time:</u> Number of Loading Tool Passes Required passes

to Fill Truck:

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:

NA Maneuver:

NA

Dump:

0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.575

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.060	minutes
	Adjusted Loader Cycle Time:	0.515	minutes
	Net Load Time per Truck:	1.645	minutes

Truck Cycle Time:

Truck Exchange Time: Truck Load Time: Truck Maneuver and

 0.60
 Minutes

 1.645
 Minutes

 1.00
 Minutes

Adjusted for site altitude: Adjusted for site altitude: Adjusted for site altitude:

 0.600
 Minutes

 1.645
 Minutes

 1.000
 Minutes

Dump Time:

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Haul Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time
						(min)
1	500.00	0.00	3.00	3.00	2754	0.632

Haul Time:

0.632

minutes

Return Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel	
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time	
						(min)	
1	500.00	0.00	3.00	3.00	4074	0.466	

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Return Time: 0.466 minutes Total Truck Cycle Time: 4.343 minutes Loading Tool unit LCY/Hour Production 811.40 LCY/Hour Adjusted for job efficiency: 673.46 Truck Unit Production LCY/Hour Adjusted for job efficiency: LCY/Hour 419.43 348.13 2 Selected Number of Trucks: Optimal No. of Truck(s) 2 Truck(s) Trucks: Adjusted hourly truck team production: LCY/Hour 696.26 Adjusted single truck/loader team production: 673.46 LCY/Hour Adjusted multiple truck/loader team production: 2,020.39 LCY/Hour **JOB TIME AND COST**

Total job time:

Total job cost:

102.12

\$286,655

Hours

3

\$1.389

Fleet size:

Unit cost:

Team(s)

/LCY

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TRUCK/LOADER TEAM WORK

Task description: Haul Backfill Material from South Facilities to Portal Face-**Peabody Sage Creek** Permit Action: Site: Mine Permit/Job#: BondReview C2009087 **PROJECT IDENTIFICATION** Colorado Task #: 003 State: Abbreviation: None 12/18/2024 Filename: BondReview Date: County: Routt User: **RAR** Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance – Motor Grader:	NA
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown:</u> Truck/Loader Team Support Equipment Maintenance Equipment

COST EL COLLEGE			Support Equip		1	r
	Truck	Loader	Load Area	Dump	Motor	Water
				Area	Grader	Truck
%Utilization-	100	95	100	100	NA	25
machine:	100	93	100	100	INA	23
Ownership	\$116.19	\$131.26	\$257.39	\$257.39	NA	\$111.67
cost/hour:	\$110.19	\$131.20	\$231.39	\$237.39	IVA	\$111.07
Operating	\$85.60	\$95.11	\$196.93	\$196.93	NA	\$29.61
cost/hour:	φου.00	φ93.11	φ190.33	φ190.93	11/7	φ29.01
%Utilization-	NA	0	NA	NA	NA	NA
riper:	IVA	U	IVA	IVA.	IVA	IVA
Ripper own.	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
cost/hour:	14/1	Ψ0.00	ψυ.υυ	ψ0.00	11/1	Ψ0.00
Ripper op.	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
cost/hour:	11/17	Ψ0.00	ψυ.υυ	Ψ0.00	INA	ψ0.00
Operator	\$25.24	\$36.85	\$38.59	\$38.59	NA	\$21.12
cost/hour:	ΨΔ3.24	ψ50.65	ψ30.37	ψ30.33	11/7	ΨΔ1.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	\$492.91	NA	\$162.40
Number of Units:	4	2	1	1	0	1
Group Subtotals:	Work:	\$1,434.58	Support:	\$985.82	Maint:	\$162.40

Total work team cost/hour: \$2,582.80

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Initial volume: 192,960 CCY Swell factor: 1.125

Loose volume: 217,080 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,650 Pounds/LCY

Description: Decomposed rock - 25% Rock, 75% Earth

Rated Payload: 82,000 Pounds Payload Capacity: 30.94 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 30.94 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825

Adjusted Capacity: **7.590** LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

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

<u>Loading Tool Cycle Time:</u> Number of Loading Tool Passes Required to Fill Truck:

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Excavators and Front Sh	novels:							
Machine Cycle Time vs. Job Condition Rating:			A					
Selected Value within this Basic Rating:			A					
Track Loaders - Mater	rial Description:							
Cycle Time Elements (r	min.):							
Load: NA	Maneuver:	N	A	Dump	:	0.100)	
Wheel and Track Load dump, maneuver):	lers - Unadjusted Ba	sic L	oader Cyc	ele Time	(load,	0.575	5	minutes
Cycle Time Factors					Factor (r	nin.)	Source	e
Material:	Mixed material 0.	.02			0.020	<u> </u>	(Cat H	(B)
Stockpile:	Conveyor or doze and up 0.00	r pile	ed 10 ft. hi	igh	0.000		(Cat H	(B)
Truck Ownership:	Common ownersh loaders -0.04	nip of	f trucks an	d	-0.040		(Cat H	(B)
Operation:	Constant operatio	n -0.0	04		-0.040		(Cat H	(B)
Dump Target:	Nominal target 0.				0.000		(Cat H	(B)
	Net Cycle Time A				-0.060		minute	es
	Adjusted Loader (•			0.515		minute	es
	Net Load Time pe	er Tru	ıck:		1.645		minute	es
Truck Cycle Time:								
Truck Exchange Time:	0.60 Minu	utes	Adjusted	l for site	altitude:	0	.600	Minutes
Truck Load Time:	1.645 Minu					1	.645	Minutes
Truck Maneuver and	1.00 Minu	Minutes Adjusted for sign				1	.000	Minutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Dump Time:

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Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
		,	, ,	, ,	(1)	(min)
1	1250.00	-1.00	3.00	2.00	3843	1.131

					** 1		1 121		
	D (D				Haul Time:		1.131	n	ninutes
i	Return Ro		151	G 1	D 11	T 1	***		
	Seg #		l Distance	Grade	Roll.	Total	Velocity	Travel	
		(Ft)		(%)	Res (%)	Res (%)	(fpm)	Time	
								(min)	
	1	1250	0.00	1.00	3.00	4.00	3891	0.703	
				ъ			0.502		•
				Return Time			0.703		minutes
				Total Truck	Cycle Time	:	5.079	1	minutes
T 1!	T1	: 4							
Produ	ng Tool u	nıt	811.40	LCY/Ho	ır Adinat	tad for job a	fficionav	673.4	l6 LCY/Hour
Truck			011.40	LC 1/H00	ii Aujusi	ted for job e	efficiency.	0/3.4	LC 1/HOUI
			250.65	I CV/Ha	our Adjusted for job efficien			297.6	0 I CV/H222
Produ	Cuon		358.65	LCY/Hou	ar Adjusi	ied for job e	efficiency: 25		LCY/Hour
Ontim	nal No. of		2	Truck(s)	Selected Number of Trucks:			2	Truck(s)
Truck			2	Truck(s)	Selecti	eu muindei	of flucks.	2	Truck(s)
TTUCK									
	Adiust	ed ho	urly truck te	eam production	on:		595.36	I	LCY/Hour
	-		-	ader team pro			595.36		LCY/Hour
	•		-	loader team			1,190.		LCY/Hour
	Tajast	ca m	anipie track	Todaci tedili	production.				LC 1/11our
;	JOB TIM	IE Al	ND COST						
	Fleet siz	ze:	2	Team(s)	Total jo	b time:	182.31		Hours
	Unit cos		\$2.169	/LCY	Ū		\$470,866		_
	Omit cos	ol	Φ2.109	/LC I	Total jo	oo cost.	Φ4/0,000		_

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TRUCK/LOADER TEAM WORK

Task description: Remove Coal Stockpile Footprint

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:004State:ColoradoAbbreviation:NoneDate:12/18/2024County:RouttFilename:004

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance – Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown</u>: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization- machine:	100	95	100	100	25	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	\$257.39	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	\$196.93	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	\$492.91	\$179.85	\$162.40
Number of Units:	4	1	1	1	1	1
Group Subtotals:	Work:	\$1,171.35	Support:	\$985.82	Maint:	\$342.25

Total work team cost/hour: \$2,499.42

MATERIAL QUANTITIES

Initial volume: 48,400 CCY Swell factor: 1.000

Loose volume: 48,400 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00
Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 1,600 Pounds/LCY

Description: Coal - Bituminous, Raw

Rated Payload: 82,000 Pounds Payload Capacity: 51.25 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 25.53 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925

Adjusted Capacity: 8.510 LCY

Job Condition Corrections: Site Altitude (ft.): <u>6800</u> feet

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

Number of Loading Tool Passes Required

<u>Loading Tool Cycle Time:</u> to Fill Truck:

3	passes

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Excavators and Front Sl	novels:							
Machine Cycle Time vs. Job Condition Rating:			A					
Selected Value within this Basic Rating:			Α					
Track Loaders – Mate	rial Description:							
Cycle Time Elements (r	min.):							
Load: NA	Maneuver:	NA	A	Dump	:	0.100)	
Wheel and Track Load dump, maneuver):	lers - Unadjusted Ba	isic Lo	oader Cyc	le Time	(load,	0.575	5	minutes
Cycle Time Factors					Factor (r	nin.)	Source	2
Material:	Material 1/8" to 3	8/4" dia	ameter -0	.02	-0.020 (Ca		(Cat H	(B)
Stockpile:	Conveyor or doze and up 0.00	er pileo	d 10 ft. hi	gh	0.000		(Cat H	(B)
Truck Ownership:	Common ownersl loaders -0.04	hip of	trucks an	d	-0.040		(Cat H	(B)
Operation:	Constant operatio	n -0.0	4		-0.040		(Cat H	(B)
Dump Target:	Nominal target 0.				0.000		(Cat H	(B)
	Net Cycle Time A	U			-0.100		minute	es
	Adjusted Loader	•			0.475		minute	
	Net Load Time pe	er Truc	ck:		1.050		minute	es
Truck Cycle Time:								
Truck Exchange Time:	0.60 Minu	utes	Adjusted	l for site	altitude:	0	0.600	Minutes
Truck Load Time:	1.050 Minu	utes	Adjusted	l for site	altitude:	1	.050	Minutes
Truck Maneuver and	1.00 Minu	Minutes Adjusted for si				1	.000	Minutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Dump Time:

Haul Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time
						(min)
1	365.00	-2.60	3.00	0.40	4254	0.622
2	525.00	-8.69	3.00	-5.69	1693	0.437
3	1760.00	-6.25	3.00	-3.25	3053	0.642
4	900.00	-5.30	3.00	-2.30	3893	0.286

				Haul Time:		1.987		minutes
]	Return R	oute:				T		
	Seg#	Haul Distance	Grade	Roll.	Total	Velocity	Trave	el
		(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time	
							(min))
	1	900.00	5.30	3.00	8.30	2120	0.555	5
	2	1760.00	6.25	3.00	9.25	2000	0.878	3
	3	525.00	8.69	3.00	11.69	1477	0.321	1
	4	365.00	2.60	3.00	5.60	2851	0.277	7
_								
			Return Time	e:		2.031		minutes
	Total		Total Truck	Cycle Time	6.668		minutes	
Loadii	ng Tool ι	ınit						
Produc	_	928.36	LCY/Ho	ur Adjus	ted for job e	efficiency:	770	.54 LCY/Hour
Truck	Unit			J	ŭ			
Produ	ction	229.72	LCY/Ho	ur Adjus	ted for job e	efficiency:	190	.67 LCY/Hour
				J	· ·	•		

Adjusted hourly truck team production: 762.68 LCY/Hour Adjusted single truck/loader team production: 762.68 LCY/Hour Adjusted multiple truck/loader team production: 762.68 LCY/Hour

Truck(s)

Selected Number of Trucks:

JOB TIME AND COST

4

Optimal No. of

Trucks:

Fleet size:	_1	Team(s)	Total job time:	63.46	Hours
Unit cost:	\$3.277	/LCY	Total job cost:	\$158,613	

Truck(s)

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BULLDOZER WORK

Task description	on: Re	egrade Cut	Material	Over 6.93 ROM	Coal Area	
Peabody Sag e: Mine	ge Creek	Permi	t Action:	BondReview	Permit/Job	p#: <u>C2009087</u>
PROJECT IDE	ENTIFICA	<u>ATION</u>				
Task #: 005 Date: 12/ User: RA	18/2024	State: County:	Colorad Routt	0	Abbreviation: Filename:	None C087-005
Agency or org	anization n	name: D	RMS			
HOURLY EQU	JIPMENT	COST				
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Data Source:	3-shank 1 per da (CRG)	niversal ripper				
Cost Breakdown Ownership Cost/Hour:	_	73.32		Utilization % NA		
Operating Cost/Hour:	\$10	09.71		100		
Ripper own. Cost/Hour:	\$14	4.53		NA		
Ripper op. Cost/Hour:	\$0.	.00		0		
Operator Cost/Hour:	\$38	8.59		NA		
Total unit	\$33	36.15				
Cost/Hour: Total Fleet Cost/Hour:	\$33	36.15				

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MATERIAL QUANTITIES

Initial 16,770 Volume: Swell factor: 1.125 Loose **18,866** LCY volume: Source of estimated Division of Reclamation, Mining & Safety volume: Source of estimated swell Cat Handbook

factor:

HOURLY PRODUCTION

100 feet Average push distance: Unadjusted hourly 852.6 LCY/hr production:

Materials consistency

description:

Average push gradient:

Average site

6,800 feet

0 %

altitude:

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

Partly consolidated stockpile 1.1

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit production:

405.41 LCY/hr

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Adjusted fleet production: 405.41 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.829/LCY

Total job time: 46.54 Hours Total job cost: \$15,643

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BULLDOZER WORK

Task descriptio	n: Regrade Cut	Regrade Cut Material Over covered Storage Pad Area				
Peabody Sag	ge Creek Permi	t Action:	BondReview	Permit/Job	#: <u>C2009087</u>	
PROJECT IDE	ENTIFICATION					
Task #: 011 Date: 12/2 User: RA	18/2024 County:	Colorado Routt)	Abbreviation: Filename:	None 011	
Agency or orga	anization name: _D	RMS				
HOURLY EOU	JIPMENT COST					
Basic	_					
Machine:	Cat D8T - 8SU					
Horsepower:	310		_			
Blade Type:	Semi-Universal		_ ;			
Attachment:	3-shank ripper		_			
Shift Basis:	1 per day		_			
Data Source:	(CRG)		_			
C . D . 1.1						
Cost Breakdown	<u>l</u> :	I	I Itilization 0/			
Ownership Cost/Hour:	\$173.32		<u>Utilization %</u> NA			
Operating Cost/Hour:	\$109.71		100			
Ripper own. Cost/Hour:	\$14.53		NA			
Ripper op. Cost/Hour:	\$0.00		0			
Operator Cost/Hour:	\$38.59		NA			
Total unit Cost/Hour:	\$336.15					
Total Fleet Cost/Hour:	\$336.15					

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MATERIAL QUANTITIES

Initial 2,500 Volume: Swell factor: 1.125 Loose **2,813** LCY volume:

Source of estimated

volume:

Division of Reclamation, Mining & Safety

Source of estimated swell

factor:

Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet

Unadjusted hourly

852.6 LCY/hr

production:

Materials consistency

description:

Partly consolidated stockpile 1.1

Average push 0 %

gradient:

Average site

6,800 feet

altitude:

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit

405.41 LCY/hr production:

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Adjusted fleet production: 405.41 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.829/LCY

Total job time:
Total job cost:

6.94 Hours
\$2,332

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BULLDOZER WORK

Regrade Drill Pads COV11, CCU31, CCU47, CCU58, CCU67, Task description: CCU84

Peabody Sage Creek Permit Action:

Site: Mine BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 012 Colorado Abbreviation: State: None Date: 12/18/2024 County: Routt Filename: 012 User: **RAR**

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Cat D8T - 8SU Machine:

310 Horsepower:

Blade Type: Semi-Universal Attachment: 3-shank ripper

Shift Basis: 1 per day Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$7.95	100
Operator Cost/Hour:	\$38.59	NA

Total unit \$344.10

Cost/Hour:

Total Fleet \$344.10

Cost/Hour:

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MATERIAL QUANTITIES

Initial 3,388 Volume: Swell factor: 1.250 Loose **4,235** LCY volume:

Source of estimated

Division of Reclamation, Mining & Safety

volume:

Source of estimated swell

factor:

Cat Handbook

HOURLY PRODUCTION

Average push distance:

50 feet 1,400.0 LCY/hr

Unadjusted hourly production:

Materials consistency

description:

Compacted fill or embankment 0.9

Average push 0 %

gradient:

Average site

6,800 feet

altitude:

Material weight: 2,650 lbs/LCY

Weight

Decomposed rock - 25% Rock, 75% Earth

description:

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit

544.60 LCY/hr production:

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Adjusted fleet production: 544.6 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.632/LCY

Total job time: 7.78 Hours \$2,676

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BULLDOZER WORK

Task description	n: Regrade Drill Pa	rill Pads CCU087 and Septic Drainfield				
Peabody Sag	ge Creek Permit Ac	etion: BondReview	Permit/Job#	t: <u>C2009087</u>		
PROJECT IDE	NTIFICATION					
Task #: 013 Date: 12/1 User: RA	18/2024 County: Re	olorado outt	_ Abbreviation: _ Filename: _	None 013		
Agency or orga	nization name: _DRM	S				
HOURLY EQU	IPMENT COST					
Basic	_					
Machine:	Cat D8T - 8SU					
Horsepower:	310					
Blade Type:	Semi-Universal					
Attachment:	3-shank ripper					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown						
COSt DICARGOWII	·	Utilization %				
Ownership Cost/Hour:	\$173.32	NA				
Operating Cost/Hour:	\$109.71	100				
Ripper own. Cost/Hour:	\$14.53	NA				
Ripper op. Cost/Hour:	\$7.95	100				
Operator Cost/Hour:	\$38.59	NA				
Total unit	\$344.10					
Cost/Hour: Total Fleet Cost/Hour:	\$344.10					

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MATERIAL QUANTITIES

Initial Volume: 847

Swell factor: 1.250

Loose volume:

1,059 LCY

Source of estimated

Division of Reclamation, Mining & Safety

volume:

Source of estimated swell

factor:

Cat Handbook

HOURLY PRODUCTION

Average push distance:

50 feet

Unadjusted hourly

1,400.0 LCY/hr

production:

Materials consistency C

description:

Compacted fill or embankment 0.9

Average push

0 %

gradient: Average site

ite 6,800 feet

altitude:

Material weight: 2,650 lbs/LCY

Weight

description:

Decomposed rock - 25% Rock, 75% Earth

CIRCES Cost Estimating Software

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Job Condition Correction	on Factor Source	
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4668	
Adjusted unit production:	653.52 LCY/hr	
Adjusted fleet production:	653.52 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.527/LCY
Total job time:	1.62 Hours
Total job cost:	\$557

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TRUCK/LOADER TEAM WORK

	Peabody Sage Creek Permi		vel from No	orth Facilities F	Parking Area		
ite:			Permi	t Action:	BondReview	Permit/Job	b#: <u>C2009087</u>
<u>I</u>	PROJECT	Γ IDENTIFICA	<u>ATION</u>				
	Task #:	020	State:	Colorado		Abbreviation:	None
	Date:	12/18/2024	County:	Routt		Filename:	020
	User:	RAR	_			-	
<u>I</u>		EQUIPMENT uipment Descrip		Shift basis: <u>(</u>	per day		
	Truck Lo	ader Team -Tru	ck:	Cat 770	D		
	-Loader:			CAT 98	8H		
	Support F	Equipment -Load	d Area:	NA			
	-Dump A	rea:		NA			
_	Road Ma	intenance –Moto	or Grader:	CAT 14	-M		
	-Water T	male:		Water	anker, 10,000 C	201	

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization- machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization- riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 4,195 CCY Swell factor: 1.090

Loose volume: 4,573 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00
Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY

Description: Clay and gravel - Dry

Rated Payload: 82,000 Pounds Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

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30.36 Final Truck Volume Based on Number of Loader Passes: LCY Loading Tool Capacity **Bucket Size Class:** NA 9.200 LCY (heaped) Rated Capacity: Other - rock/dirt mixtures (100-120%) 1.100 **Bucket Fill Factor:** 1.100 Adjusted Capacity: 10.120 **LCY** Job Condition Corrections: Site Altitude (ft.): 6800 feet **Truck** Loader Source (CAT HB) Altitude Adj: 1.000 1.000 Job Efficiency: 0.830 0.830 (CAT HB) Net Correction: 0.830 0.830 Number of Loading Tool Passes Required passes 3 to Fill Truck: **Loading Tool Cycle Time: Excavators and Front Shovels:** Machine Cycle Time vs. Job Condition NA Rating: NA Selected Value within this Basic Rating: Track Loaders – Material Description: Cycle Time Elements (min.): Load: NA Maneuver: NA Dump: 0.100 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, minutes 0.575 dump, maneuver): Factor (min.) Source Cycle Time Factors Material: Material 1/8" to 3/4" diameter -0.02 -0.020(Cat HB) Stockpile: Conveyor or dozer piled 10 ft. high 0.000 (Cat HB) and up 0.00 Truck Ownership: Common ownership of trucks and -0.040(Cat HB) loaders -0.04 -0.040 Operation: Constant operation -0.04 (Cat HB) **Dump Target:** Nominal target 0.00 0.000 (Cat HB) Net Cycle Time Adjustment: -0.100minutes Adjusted Loader Cycle Time: 0.475

Net Load Time per Truck:

1.050

minutes

minutes

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Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes
Dump Time:		_			

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Very hard, smooth, asphalt or concrete, no tire penetration 1.2</u>

Haul Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time
					_	(min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time:	3.212	minutes
HIGGI HIIIC.	U I	minates

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
					_	(min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time:	2.754	minutes
Total Truck Cycle Time:	8.616	minutes

Loading	Tool	unit
Loading	1001	umi

Production	1,104.00	_ LCY/Hour	Adjusted for job efficiency:	916.32	LCY/Hour
Truck Unit					
Production	211.42	LCY/Hour	Adjusted for job efficiency:	175.48	LCY/Hour
Optimal No. of	5	Truck(s)	Selected Number of Trucks:	6	Truck(s)
Trucks:					

Adjusted hourly truck team production:	1,052.87	LCY/Hour
Adjusted single truck/loader team production:	916.32	LCY/Hour
Adjusted multiple truck/loader team production:	916.32	LCY/Hour

JOB TIME AND COST

Fleet size:	_1	Team(s)	Total job time:	4.99	Hours
Unit cost:	\$2.147	/LCY	Total job cost:	\$9,819	

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TRUCK/LOADER TEAM WORK

Task description: Remove Gravel from Main North Facilities Area

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:021State:ColoradoAbbreviation:NoneDate:12/18/2024County:RouttFilename:021

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance – Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown</u>: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization- machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,967.66

MATERIAL	OUANTITIES

Initial volume: 9,680 CCY Swell factor: 1.090
Loose volume: 10,551 LCY

Source of estimated volume:

Source of estimated swell factor:

Material Purchase Cost:

Total Cost:

Division of Reclamation, Mining & Safety

Cat Handbook

\$0.00

\$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY
Description: Clay and gravel - Dry

Description: Clay and gravel - Dry
Rated Payload: 82,000 Pounds
Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume:21.60LCYHeaped Volume:31.70LCYAverage Volume:26.65LCYAdjusted Volume:31.70LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity: 10.120 LCY

<u>Job Condition Corrections:</u> Site Altitude (ft.): <u>6800</u> feet

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

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck:

passes

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Excavators and Front Shovels:		

Machine Cycle Time v Rating:	vs. Job Condition	NA				
Selected Value within	this Basic Rating:	NA				
Track Loaders – Mate	rial Description:					
Cycle Time Elements (1	nin.):					
Load: NA	Maneuver:	NA	Dump	: 0.	100	
Wheel and Track Load	ders - Unadjusted Ba	sic Loader C	ycle Time	(load,	.575	minutes
dump, maneuver):			•			
•				Factor (min		
Cycle Time Factors	Material 1/8" to 3	/4" diameter				3)
Cycle Time Factors Material:	Material 1/8" to 3 Conveyor or doze and up 0.00		-0.02	Factor (min	.) Source	
Cycle Time Factors Material:	Conveyor or doze	er piled 10 ft.	-0.02 high	Factor (min -0.020	.) Source (Cat HE	3)
Cycle Time Factors Material: Stockpile: Truck Ownership:	Conveyor or doze and up 0.00 Common ownersh	er piled 10 ft.	-0.02 high	Factor (min -0.020 0.000	.) Source (Cat HE (Cat HE	3)
Cycle Time Factors Material: Stockpile:	Conveyor or doze and up 0.00 Common ownersh loaders -0.04	er piled 10 ft. nip of trucks and reaches and reaches and reaches are reached are reaches are reaches are reaches are reached are reached	-0.02 high	Factor (min -0.020 0.000 -0.040	.) Source (Cat HE (Cat HE	3)
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Conveyor or doze and up 0.00 Common ownersh loaders -0.04 Constant operatio	or piled 10 ft. This piled 10 ft. This piled 10 ft. This piled 10 ft.	-0.02 high	Factor (min -0.020 0.000 -0.040 -0.040	.) Source (Cat HE (Cat HE (Cat HE	3) 3) 3) 3)
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Conveyor or doze and up 0.00 Common ownersh loaders -0.04 Constant operatio Nominal target 0.	er piled 10 ft. nip of trucks and in -0.04 00 Adjustment:	-0.02 high	Factor (min -0.020 0.000 -0.040 -0.040 0.000	.) Source (Cat HE (Cat HE (Cat HE (Cat HE	3) 3) 3) 3)

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes
Dump Time:					

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Very hard, smooth, asphalt or concrete, no tire penetration 1.2</u>

Haul Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time
						(min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time:	3.212	minutes

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Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
1	10560.00	0.00	1.20	1.20	4254	(min) 2.754

1	10300.00	0.00	.20	1.20	7237	2.737		
		Return Time: Fotal Truck Cy	cle Time	:	2.754 8.616		minute minute	
Loading Tool ur Production	nit 	_ LCY/Hour	Adjust	ted for job	efficiency:	916.	32	_ LCY/Hour
Truck Unit Production	211.42	_ LCY/Hour	Adjust	ted for job	efficiency:	175.	48	_ LCY/Hour
Optimal No. of Trucks:	5	Truck(s)	Selecto	ed Number	of Trucks:	6		Truck(s)
Adjuste	ed hourly truck teadsingle truck/loadsday	ıder team produ	iction:		1,052.3 916.32 916.3 2)	LCY/I	Hour

JOB TIME AND COST

Fleet size:		_ Team(s)	Total job time:	11.51	Hours
Unit cost:	\$2.147	/LCY	Total job cost:	\$22,657	

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TRUCK/LOADER TEAM WORK

Task description: Remove Gravel from North Facilities Electrical Shop Area

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:022State:ColoradoAbbreviation:NoneDate:12/18/2024County:RouttFilename:022

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance – Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown</u>: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump	Motor	Water
				Area	Grader	Truck
%Utilization- machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 2,581 CCY Swell factor: 1.090

Loose volume: **2,813** LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY

Description: Clay and gravel - Dry

Rated Payload: 82,000 Pounds Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity: 10.120 LCY

<u>Job Condition Corrections:</u> Site Altitude (ft.): <u>6800</u> feet

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

<u>Loading Tool Cycle Time:</u> Number of Loading Tool Passes Required to Fill Truck:

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Excavators and Front Shovels:	
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Machine Cycle Time vs. Job Condition
Rating:
Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:	NA	Maneuver:	NA	Dump:	0.100	_
Wheel and		ers - Unadjusted Bas	sic Loader Cyc	le Time (load,	0.575	minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes
Dump Time:					

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Very hard, smooth, asphalt or concrete, no tire penetration 1.2</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
	(11)	(70)	Res (70)	KC3 (70)	(григ)	(min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time:	3.212	minutes
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Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
						(min)
1	10560.00	0.00	1.20	1.20	4254	2.754

		Return Time: Total Truck Cyc	ele Time:	2.754 8.616		minutes	
Loading Tool unit Production Truck Unit	1,104.00	LCY/Hour	Adjusted for job eff	ïciency:	916	.32	LCY/Hour
Production	211.42	_ LCY/Hour	Adjusted for job eff	iciency:	175	.48	LCY/Hour
Optimal No. of Trucks:	5	Truck(s)	Selected Number of	Trucks:	6		Truck(s)
Adjusted sir	•	m production: der team produc	ction:	1,052.8	7	LCY/F	Iour

Adjusted strigte truck/loader team production.	910.32
Adjusted multiple truck/loader team production:	916.32
	-

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	3.07	Hours
Unit cost:	\$2.147	_ /LCY	Total job cost:	\$6,041	

LCY/Hour

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TRUCK/LOADER TEAM WORK

Task description: Remove Gravel from North Office Parking Area

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:023State:ColoradoAbbreviation:NoneDate:12/18/2024County:RouttFilename:023

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance – Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

<u>Cost Breakdown</u>: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization- machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,967.66

MATERIAL QUA	NTITIES
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Initial volume: 484 CCY Swell factor: 1.090

Loose volume: 528 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY

Description: Clay and gravel - Dry

Rated Payload: 82,000 Pounds Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity: 10.120 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

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

<u>Loading Tool Cycle Time:</u> Number of Loading Tool Passes Required to Fill Truck:

	Excavato	rs and Front Sho	ovels:						
	Machin Rating:	e Cycle Time vs	. Job Condition	on NA					
	_	d Value within th	nis Basic Rati	ng: NA					
	Track L	oaders – Materia	al Description	n:					
	Cycle Ti	me Elements (mi	n.):						
	Load:	NA	Maneuver:	NA	Di	ump:	0.10	0	
		and Track Loade maneuver):	rs - Unadjust	ed Basic Loa	ader Cycle T	ime (load,	0.57	5 mi	nutes
	Cycle T	ime Factors				Factor	(min.)	Source	
	Materia		Material 1/8	" to 3/4" dia	meter -0.02	-0.020	· /	(Cat HB)	<u> </u>
	Stockpi		Conveyor or and up 0.00	dozer piled	10 ft. high	0.000		(Cat HB)	_
	Truck C	Ownership:	Common ov loaders -0.04		rucks and	-0.040		(Cat HB)	
	Operation	on:	Constant op	eration -0.04	-	-0.040		(Cat HB)	
	Dump 7	Target:	Nominal tar			0.000		(Cat HB)	
			Net Cycle T	ime Adjustn	nent:	-0.100		minutes	
			Adjusted Lo	ader Cycle 7	Γime:	0.475		minutes	
			Net Load Ti	me per Truc	k:	1.050		minutes	
	Truck C	ycle Time:							
Tr	uck Exch	ange Time:	0.60	Minutes A	Adjusted for	site altitude	: (0.600	Minutes
	uck Load	-	1.050	Minutes	Adjusted for	site altitude	: 1	1.050	Minutes
Tr	uck Mane	euver and	1.00		J	site altitude		1.000	Minutes
	ımp Time								-
		avel (Haul & Re	turn) Time: R	Road Conditi	on: <u>Very ha</u> ı	rd, smooth, a	sphalt o	r concrete, r	<u>10</u>
	tire penet	ration 1.2							
	Haul Rou	ıte:							
	Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel		
	9	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time		
				` ′	, ,		(min)		
	1	10560.00	0.00	1.20	1.20	4223	3.212		

Haul Time:

3.212

minutes

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Return Route:

Trucks:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
						(min)
1	10560.00	0.00	1.20	1.20	4254	2.754

		Return Time: Fotal Truck Cyo	2.754 cle Time: 8.616		minutes minutes	
Loading Tool unit Production Truck Unit	1,104.00	_ LCY/Hour	Adjusted for job efficiency	: <u>91</u> 0	6.32	LCY/Hour
Production Production	211.42	_ LCY/Hour	Adjusted for job efficiency	: 175	5.48	LCY/Hour
Optimal No. of	5	Truck(s)	Selected Number of Truck	s: 6		Truck(s)

Adjusted hourly truck team production:	1,052.87	LCY/Hour
Adjusted single truck/loader team production:	916.32	LCY/Hour
Adjusted multiple truck/loader team production:	916.32	LCY/Hour

JOB TIME AND COST

Fleet size:		Team(s)	Total job time:	0.58	Hours
Unit cost:	\$2.147	_ /LCY	Total job cost:	\$1,133	

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TRUCK/LOADER TEAM WORK

Task description: Remove Gravel from South Powder Magazine Pad

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:024State:ColoradoAbbreviation:NoneDate:12/18/2024County:RouttFilename:024

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description

Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance – Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization- machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 416 CCY Swell factor: 1.090

Loose volume: 453 LCY

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

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY

Description: Clay and gravel - Dry

Rated Payload: 82,000 Pounds Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: **10.120** LCY

Job Condition Corrections: Site Altitude (ft.): <u>6800</u> feet

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

Loading Tool Cycle Tin	e: Number of Loading Tool Passes Required to Fill Truck:				3		passes
Excavators and Front Sho	ovels:						
Machine Cycle Time vs Rating:	. Job Condition	NA					
Selected Value within the	nis Basic Rating:	NA					
Track Loaders – Materia	al Description:						
Cycle Time Elements (m	in.):						
Load: NA	Maneuver:	NA	_ Dump	; -	0.100)	
Wheel and Track Loade dump, maneuver):	ers - Unadjusted Bas	ic Loader Cy	cle Time	(load,	0.575	mi	nutes
Cycle Time Factors				Factor (n	nin.)	Source	
Material:	Material 1/8" to 3/4	4" diameter -	0.02	-0.020	Í	(Cat HB)	
Stockpile:	Conveyor or dozer and up 0.00	piled 10 ft. h	nigh	0.000		(Cat HB)	
Truck Ownership:	Common ownership loaders -0.04	ip of trucks a	nd	-0.040		(Cat HB)	
Operation:	Constant operation	ı -0.04		-0.040		(Cat HB)	
Dump Target:	Nominal target 0.0			0.000		(Cat HB)	
	Net Cycle Time A	U		-0.100		minutes	
	Adjusted Loader C	•		0.475		minutes	
	Net Load Time per	r Truck:		1.050		minutes	
Truck Cycle Time:							
Truck Exchange Time:	0.60 Minut	tes Adjuste	d for site	altitude:	0	.600	Minutes
Truck Load Time:	1.050 Minut	tes Adjuste	d for site	altitude:	1	.050	Minutes
Truck Maneuver and Dump Time:	1.00 Minut	tes Adjuste	d for site	altitude:	1	.000	Minutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Very hard, smooth, asphalt or concrete, no tire penetration 1.2</u>

Haul Route:

Seg #	Haul Distance	Grade	Roll.	Total	Velocity	Travel
	(Ft)	(%)	Res (%)	Res (%)	(fpm)	Time
					_	(min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: 3.212 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time
						(min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: 2.754 minutes
Total Truck Cycle Time: 8.616 minutes

Loading Tool unit

Production 1,104.00 LCY/Hour Adjusted for job efficiency: 916.32 LCY/Hour Truck Unit Production 211.42 LCY/Hour Adjusted for job efficiency: 175.48 LCY/Hour Optimal No. of 5 Truck(s) Selected Number of Trucks: 6 Truck(s) Trucks:

Adjusted hourly truck team production:

Adjusted single truck/loader team production:

Adjusted multiple truck/loader team production:

916.32 LCY/Hour

Plant 1,052.87 LCY/Hour

LCY/Hour

LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 0.49 Hours

Unit cost: \$2.147 /LCY Total job cost: \$974

BULLDOZER RIPPING WORK

	Task description: Rip N	North Facilities Pa	rking Area			
Site:	Peabody Sage Creek Mine	Permit Action:	BondReview	Per	rmit/Job#:	C2009087
<u>I</u>	PROJECT IDENTIFICATION	<u>ON</u>				
		tate: Colorado ounty: Routt)	Abbrevi Filenam		None 030
	Agency or organization name	e: DRMS				
<u>I</u>	HOURLY EQUIPMENT CO	<u>OST</u>				
		D10T - 10SU ank Ripper	Horsepower: Shift Basis: Data Source:	- - -	574 1 per day (CRG)	
<u>(</u>	Cost Breakdown:					
			Util %	ization		
	Ownership Cost/Hour: Operating Cost/Hour:	\$257.39 \$196.93	NA 100			
	Ripper Ownership Cost/Hou Ripper Operating Cost/Hour		NA 100			
	Operator Cost/Hour: Total Unit Cost/Hour:	\$38.59 \$529.66	NA			
	Total Fleet Cost/Hour:	\$529.66				
_	MATERIAL QUANTITIES Alternate Methods:	Selecte method	ed estimating l:	Area	a	
_						
ismic: ea:	$\frac{\text{NA}}{2.60}$ acres R	Bank Volume: Lip Depth (ft):	NA 1.50	BCY Volum	NA 6,292	BC'

HOURLY PRODUCTION

Seismic:			
Seismic Velocity:	NA	feet/second	
Area:			
Average Ripping Depth:	1.50	feet/pass	
Average Ripping Width:	8.67	feet/pass	
Average Ripping Length:	250.00	feet/pass	
Average Dozer Speed:	88.00	feet/minute	
Average Maneuver Time:	0.25	minutes/pass	
Production per unit area:	0.966	acres/hour	
r			
Job Condition Correction Factors			
Unadjusted Hourly Unit Production:	0.966	Acres/hr	
		_	
Site Altitude:	6,800	feet	
Altitude Adj:	1.00	(CAT HB)	
Job Efficiency:	0.83	(1 shift/day)	
Net Correction:	0.83	multiplier	
Adjusted Hourly Unit Production:	0.80	Acres/hr	
Adjusted Hourly Fleet Production:	0.80	Acres/hr	
Adjusted Hourry Freet Froduction.	0.00	_ ACICS/III	
JOB TIME AND COST			
Fleet size: 1 Grader(s)	Total job time:	3.24	Hours
Unit cost: \$660.667 Per acre	Total job cost:	\$1,718	

BULLDOZER RIPPING WORK

	Task description:	Rip Nortl	n Facilities Ar	ea					
Site:	Peabody Sage Mine	Creek Pe	ermit Action:	BondRe	view	Pei	rmit/Job	#: <u>C2009</u>	9087
]	PROJECT IDEN	TIFICATION							
	Task #: 031 Date: 12/18/ User: RAR	State: Count	Colorado y:Routt)		Abbrevi Filenam		None 031	
	Agency or organi		DRMS						
<u>]</u>	HOURLY EQUIE	PMENT COST							
	Basic Machine: Ripper Attachme	Cat D107 3-Shank		Horsep Shift B Data So	asis:	- - -	574 1 per d (CRG)	ay	
<u> </u>	Cost Breakdown:				Utiliza	ntion			
	Ownership Cost/l	Hour:	\$257.39		% NA				
	Operating Cost/H		\$196.93		100				
	Ripper Ownership		\$25.02		NA				
	Ripper Operating		\$11.73		100				
	Operator Cost/Ho	our:	\$38.59		NA				
	Total Unit Cost/H	Iour:	\$529.66		_				
	Total Fleet Cost/I	Hour:	\$529.66						
	MATERIAL QUA		Selecte method	ed estimati d:	ng	Are	a		
<u> </u>	Alternate Methods	<u>.</u>							
Seismic:	NA	•	nk Volume:	NA		BCY	NA		
Area:	6.00	acres Rip D	epth (ft):	1.50	e:	olum	14,520)	BCY or CCY
	Source of estimat	ed quantity:	Map 2	2.05.3 M1I	В				_
]	HOURLY PROD	<u>UCTION</u>							
<u> </u>	Seismic:								
	Seismic Velocity		NA			feet/sec	cond		

Fleet size: 1	Grader(s)	Total job time:	7.48	Hours
JOB TIME AND COST				
Adjusted Hourly Fleet Prod	duction:	0.80	_ Acres/hr	
Adjusted Hourly Unit Prod		0.80	Acres/hr	
Net Correction:		0.83	multiplier	
Job Efficiency:		0.83	(1 shift/day)	
Altitude Adj:		1.00	(CAT HB)	
Site Altitude:		6,800	feet	
Unadjusted Hourly Unit Pro	oduction:	0.966	Acres/hr	
Job Condition Correction Fac	ctors			
Production per unit area:		0.966	acres/hour	
Average Maneuver Time:		0.25	minutes/pass	
Average Dozer Speed:		88.00	feet/minute	
Average Ripping Length:		250.00	feet/pass	
Average Ripping Width:	Average Ripping Width:		feet/pass	
Average Ripping Depth:		1.50	feet/pass	
Area:				

Total job cost:

\$3,964

Unit cost:

\$660.667

Per acre

BULLDOZER RIPPING WORK

	Task descr	iption: Ri	ip North l	Electrical Sh	op Facilit	ies Area			
Site:	Peabody Mine	Sage Creek	Pern	nit Action:	BondRev	view	_ Permit/Job	#: <u>C2009</u>	9087
<u> 1</u>	PROJECT	IDENTIFICA	TION						
	Task #:	032	State:	Colorado		Abl	oreviation:	None	
	Date: User:	12/18/2024 RAR	County:	Routt		File	ename:	032	
	Agency or	organization n	ame:	DRMS					_
<u>]</u>	HOURLY 1	<u>EQUIPMENT</u>	COST						
	Basic Mac	hine: C	Cat D10T -	- 10SU	Horsepo	ower:	574		_
			-Shank Ri	ipper	Shift Ba Data So		1 per d (CRG)		_ _
<u>(</u>	Cost Breake	lown:				Utilizatio	ın		
						%	11		
	Ownership	Cost/Hour:		\$257.39		NA			
		Cost/Hour:		\$196.93		100			
		nership Cost/H		\$25.02		NA			
		erating Cost/H	our:	\$11.73		100			
	Operator C			\$38.59		NA			
	Total Unit	Cost/Hour:		\$529.66		-			
	Total Fleet	t Cost/Hour:		\$529.66		-			
<u>1</u>	<u>MATERIA</u>	L QUANTITI	<u>IES</u>		d estimatir	ng	Area		
<u> 1</u>	Alternate M	ethods:		method	:	_			
Seismic:	NA			Volume:	NA		CY NA		
Area:	1.60	acres	Rip De _l	oth (ft):	1.50	Volu e:	3,872		BCY of
	Source of	estimated quan	tity:	Map 2	.05.3 M1B	1			_
<u>1</u>	HOURLY 1	<u>PRODUCTIO</u>	<u>N</u>						
5	Seismic:								
	Seismic V	elocity:		NA		fee	et/second		

Area: Average Ripping Depth:	1.50	feet/pass
Average Ripping Width:	8.67	feet/pass
Average Ripping Length:	250.00	feet/pass
Average Dozer Speed:	88.00	feet/minute
Average Maneuver Time:	0.25	minutes/pass
Production per unit area:	0.966	acres/hour
Job Condition Correction Factors		
Unadjusted Hourly Unit Production:	0.966	Acres/hr
Site Altitude:	6,800	feet
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier
Adjusted Hourly Unit Production:	0.80	Acres/hr
Adjusted Hourly Fleet Production:	0.80	Acres/hr

Total job time: 2.00

\$1,057

Total job cost:

Fleet size:

Unit cost:

_1____ Grader(s)

Per acre

\$660.667

Hours

BULLDOZER RIPPING WORK

, .	Task description:	Rip North	Office Parki	ng Area					
Site:	Peabody Sage Cree Mine	e k Perr	nit Action:	BondRe	view	Pe	rmit/Job	o#: <u>C200</u>	9087
<u>P</u>	ROJECT IDENTIF	<u>ICATION</u>							
ı	Task #: 033	State:	Colorado)		Abbrev	iation:	None	
	Date: 12/18/202 User: RAR	4 County:	Routt			Filenan	ne:	033	
	Agency or organization	on name:	DRMS						
<u>H</u>	OURLY EQUIPME	ENT COST							
	Basic Machine:	Cat D10T	- 10SU	Horsepo	ower:	_	574		
	Ripper Attachment: 3-Shank R		ipper	Shift Basis:		-	1 per d		
				Data So	ource:	.=	(CRG)		
C	ost Breakdown:								
<u>C</u>	ost Breakdown.				Utili	zation			
					%				
	Ownership Cost/Hour	r:	\$257.39		NA				
	Operating Cost/Hour:		\$196.93		100				
	Ripper Ownership Co	st/Hour:	\$25.02		NA				
	Ripper Operating Cos	st/Hour:	\$11.73		100				
	Operator Cost/Hour:		\$38.59		NA				
1	Total Unit Cost/Hour	:	\$529.66		_				
1	Total Fleet Cost/Hour	î :	\$529.66		_				
v	IATERIAL QUANT	TTIES	C -14 -	J4:4:					
	lternate Methods:	<u> </u>	method	d estimation	ng	Are	a		
smic:	NA	Bank	Volume:	NA		ВСҮ	NA		
ea:	0.30 ac	res Rip Dep	oth (ft):	1.50		Volum e:	726		BC CC
	Source of estimated q	uantity:	Map 2	2.05.3 M1E	3				

HOURLY PRODUCTION

Seismic: Seismic Velocity:	NA	feet/second	
Area:			
Average Ripping Depth:	1.50	feet/pass	
Average Ripping Width:	8.67	feet/pass	
Average Ripping Length:	250.00	feet/pass	
Average Dozer Speed:	88.00	feet/minute	
Average Maneuver Time:	0.25	minutes/pass	
Production per unit area:	0.966	acres/hour	
Trouble per unit moun			
Job Condition Correction Factors			
Unadjusted Hourly Unit Production:	0.966	Acres/hr	
3			
Site Altitude:	6,800	feet	
Altitude Adj:	1.00	(CAT HB)	
Job Efficiency:	0.83	(1 shift/day)	
Net Correction:	0.83	multiplier	
Adjusted Hourly Unit Production:	0.80	Acres/hr	
Adjusted Hourly Fleet Production:	0.80	Acres/hr	
JOB TIME AND COST			
Fleet size: 1 Grader(s)	Total job time:	0.37	Hours
Unit cost: \$660.667 Per acre	Total job cost:	\$198	

BULLDOZER RIPPING WORK

	Task description:	Rip South	Powder Mag	azine Pad	<u>l</u>				
Site:	Peabody Sage Cree Mine	ek Perr	mit Action:	BondRe	view	Pe	rmit/Job	o#: <u>C200</u>	9087
<u> I</u>	PROJECT IDENTIF	<u>ICATION</u>							
	Task #: 034	State:	Colorado)		Abbrev	iation:	None	
	Date: 12/18/202 User: RAR	4 County:	Routt			Filenan	ne:	034	
	Agency or organization	on name: _	DRMS						
<u>]</u>	HOURLY EQUIPME	ENT COST							
	Basic Machine:	Cat D10T		Horsep		-	574		
	Ripper Attachment:	3-Shank R	ipper	_ Shift Ba		-	1 per d		
				Data So	ource:	-	(CRG)	1	
(Cost Breakdown:								
	Cost Breakdown.				Utili	zation			
					%				
	Ownership Cost/Hou	r:	\$257.39		NA				
	Operating Cost/Hour:		\$196.93		100				
	Ripper Ownership Co	ost/Hour:	\$25.02		NA				
	Ripper Operating Cos	st/Hour:	\$11.73		100				
	Operator Cost/Hour:		\$38.59		NA				
	Total Unit Cost/Hour	•	\$529.66		_				
	Total Fleet Cost/Hour	r:	\$529.66		_				
ľ	MATERIAL QUANT	TITIES	Selecte	d estimati	nσ				
_	Alternate Methods:		method		···6	Are	a		
smic:	NA	Bank	Volume:	NA		BCY	NA		
ea:	0.25 ac	res Rip De	oth (ft):	1.50		Volum e:	605		BC CC
	Source of estimated of	uantity:	Map 2	2.05.3 M1H					

HOURLY PRODUCTION

Seismic:			
Seismic Velocity:	NA	feet/second	
Area:			
Average Ripping Depth:	1.50	feet/pass	
Average Ripping Width:	8.67	feet/pass	
Average Ripping Length:	150.00	feet/pass	
Average Dozer Speed:	88.00	feet/minute	
Average Maneuver Time:	0.25	minutes/pass	
Production per unit area:	0.916	acres/hour	
Job Condition Correction Factors			
Unadjusted Hourly Unit Production:	0.916	Acres/hr	
Site Altitude:	6,800	feet	
Altitude Adj:	1.00	(CAT HB)	
Job Efficiency:	0.83	(1 shift/day)	
Net Correction:	0.83	multiplier	
Adjusted Hourly Unit Production:	0.76	Acres/hr	
Adjusted Hourly Fleet Production:	0.76	Acres/hr	
JOB TIME AND COST			
Fleet size: 1 Grader(s)	Total job time:	0.33	Hours
Unit cost: \$696.292 Per acre	Total job cost:	\$174	

BULLDOZER RIPPING WORK

Task descript	ion: Rip Sou	th Covered Sto	rage Area					
Peabody S Site: Mine	age Creek I	Permit Action:	BondRey	view	Pe	rmit/Job	#: <u>C200</u>	9087
PROJECT II	DENTIFICATION	<u>1</u>						
Task #: _ 0	State	e: Colorado)		Abbrev	iation:	None	
	2/18/2024 Cour AR	nty: Routt			Filenam	ne:	035	
Agency or or	ganization name:	DRMS						
HOURLY EQ	OUIPMENT COS	<u>T</u>						
Basic Machin		0T - 10SU	Horsepo	ower:	-	574		
Ripper Attac	hment: 3-Shan	k Ripper	_ Shift Ba		-	1 per d		
			Data So	urce:	=	(CRG)		
Cost Breakdov	vn:							
Cost Bicando				Utili	zation			
				%				
Ownership C	Cost/Hour:	\$257.39		NA				
Operating Co	ost/Hour:	\$196.93		100				
Ripper Owne	ership Cost/Hour:	\$25.02		NA				
Ripper Opera	ating Cost/Hour:	\$11.73		100				
Operator Cos	st/Hour:	\$38.59		NA				
Total Unit C	ost/Hour:	\$529.66		_				
Total Fleet C	ost/Hour:	\$529.66						
MATERIAL	<u>QUANTITIES</u>	Selecte	d estimation	ng	A o			
Alternate Metl	nods:	method	l:		Are	a		
ismic: NA	B	ank Volume:	NA		BCY	NA		
ea: 3.00	acres Rip	Depth (ft):	1.50		Volum e:	7,260		BC'
Source of est	imated quantity:	Map 2	2.05.3 M1E	3				

HOURLY PRODUCTION

Seismic:				
Seismic Velocity:		NA	feet/second	
Area:				
Average Ripping Depth:		1.50	feet/pass	
Average Ripping Width:		8.67	feet/pass	
Average Ripping Length		250.00	feet/pass	
Average Dozer Speed:		88.00	feet/minute	
Average Maneuver Time	:	0.25	minutes/pass	
Production per unit area:		0.966	acres/hour	
-				
Job Condition Correction	<u>Factors</u>			
Unadjusted Hourly Unit	Production:	0.966	Acres/hr	
Site Altitude:		6,800	feet	
Altitude Adj:		1.00	(CAT HB)	
Job Efficiency:		0.83	(1 shift/day)	
Net Correction:		0.83	multiplier	
		0.00		
Adjusted Hourly Unit Pr		0.80	_ Acres/hr	
Adjusted Hourly Fleet Pr	roduction:	0.80	_ Acres/hr	
JOB TIME AND COST				
Fleet size: 1	Grader(s)	Total job time:	3.74	Hours
		ÿ		
Unit cost: \$660.667	Per acre	Total job cost:	\$1,982	

BULLDOZER RIPPING WORK

	Task descriptio	n: Rip I	Haulroa	d A/A1 Red	luction					
Site:	Peabody Sag Mine	ge Creek	Permi	t Action:	BondRev	riew	Pe	rmit/Job	#: <u>C2009</u>	0087
Ī	PROJECT IDE	NTIFICATI	<u>ON</u>							
	Task #: 040 Date: 12/2 User: RA	18/2024 C	tate: county:	Colorado Routt			Abbrev: Filenam		None 040	
	Agency or orga	anization nam	e: <u>D</u>	RMS						_
<u>I</u>	HOURLY EQU	JIPMENT C	<u>OST</u>							
	Basic Machine Ripper Attachr	ment: 3-Sh	D10T ank Rip		_ Horsepo _ Shift Ba _ Data So	sis:	- - -	574 1 per da (CRG)	ay	- - -
<u>(</u>	Cost Breakdown	<u>ı:</u>				Utiliz %	zation			
	Ownership Cost/Hour: Operating Cost/Hour: Ripper Ownership Cost/Hour: Ripper Operating Cost/Hour: Operator Cost/Hour:		_	\$257.39 \$196.93 \$25.02 \$11.73 \$38.59		NA 100 NA 100 NA				
	Total Unit Cos Total Fleet Cos		_	\$529.66 \$ 529.66		-				
_	MATERIAL Q			Selected method	d estimatin :	ıg	Are	a		
Seismic:	NA		Bank `	Volume:	NA		BCY	NA		
Area:	7.10	acres F	Rip Dept	h (ft):	1.50	· · ·	Volum ::	17,182	,	BCY or CCY
	Source of estin	nated quantity	7:	Map 2	.05.3 M1B	and A				_
	HOURLY PRO	<u>DUCTION</u>								
2	<u>Seismic:</u> Seismic Veloci	ity:		NA			feet/se	cond		

Adjusted Hourly Fleet Production:	0.80	Acres/hr
Adjusted Hourly Unit Production:	0.80	Acres/hr
Net Correction:	0.83	multiplier
Job Efficiency:	0.83	(1 shift/day)
Altitude Adj:		(CAT HB)
	1.00	feet (CAT HP)
Site Altitude:	6,800	foot
Unadjusted Hourly Unit Production:	0.966	Acres/hr
ob Condition Correction Factors		
Production per unit area:	0.966	acres/hour
Average Maneuver Time:	0.25	minutes/pass
Average Dozer Speed:	88.00	feet/minute
Average Ripping Length:	250.00	feet/pass
Average Ripping Width:	8.67	feet/pass
Average Ripping Depth:	1.50	feet/pass

Total job cost:

Total job time: **8.86** Hours

\$4,691

Fleet size:

Unit cost:

_1___ Grader(s)

Per acre

\$660.667

BULLDOZER RIPPING WORK

	Task desc	ription: R	ip Haulroa	ad B Reduct	tion					
Site:		y Sage Creek	Perm	it Action:	BondRey	view	Pe	rmit/Job	#: <u>C200</u>)9087
]	PROJECT	TIDENTIFICA	ATION							
	Task #: Date: User:	041 12/18/2024 RAR	State: County:	Colorado Routt)		Abbrev Filenan		None 041	
	Agency o	r organization r	name: <u>I</u>	DRMS						_
<u>]</u>	HOURLY	EQUIPMENT	COST							
	Basic Ma Ripper At		Cat D10T - S-Shank Rij		_ Horsepo _ Shift Ba _ Data So	asis:	- - -	574 1 per d (CRG)		
<u> </u>	Cost Break	down:				1				
						Utiliza %	ation			
		p Cost/Hour:	-	\$257.39		NA				
		g Cost/Hour:	-	\$196.93		100				
		wnership Cost/I	-	\$25.02		NA				
		perating Cost/H Cost/Hour:	our:	\$11.73 \$38.59		100 NA				
	-	t Cost/Hour:	-	\$529.66		INA				
	Total Flee	et Cost/Hour:	-	\$529.66		_				
•	MATERIA Alternate N	AL QUANTIT	<u>IES</u>	Selecte method	d estimatir l:	ng	Are	ea		
Seismic:	NA		Bank	Volume:	NA		BCY	NA		
Area:	4.80	acres	Rip Dep	th (ft):	1.50	V e:	olum	11,616	5	BCY or CCY
]		estimated quan	•	_Map 2	2.05.3 M1E	3 and A				_
	Seismic:									
<u> </u>	Seismic V	Velocity:		NA			feet/se	cond		

Δ	ras	٠.
$\boldsymbol{\Gamma}$	100	ı.

Average Ripping Depth:	1.50	feet/pass
Average Ripping Width:	8.67	feet/pass
Average Ripping Length:	250.00	feet/pass
Average Dozer Speed:	88.00	feet/minute
Average Maneuver Time:	0.25	minutes/pass
Production per unit area:	0.966	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	0.966	Acres/hr
Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	6,800 1.00 0.83 0.83	feet (CAT HB) (1 shift/day) multiplier
Adjusted Hourly Unit Production: Adjusted Hourly Fleet Production:	0.80 0.80	Acres/hr Acres/hr

JOB TIME AND COST

Fleet size:		Grader(s)	Total job time:	5.99	Hours
Unit cost:	\$660.667	Per acre	Total job cost:	\$3,171	

BULLDOZER RIPPING WORK

Site:	Peaboo Mine	ly Sage Cr	eek	Perm	nit Action:	BondRev	view	Dα	rmit/Job	v#∙ C200	09087
		Γ IDENTI	FICA	TION		Donakey	view	16.	IIIII/JOC	oπ. <u>C200</u>	<i>19</i> 08 <i>1</i>
1			FICA								
	Task #:	042		State:	Colorado)		Abbrev		None	
	Date:	12/18/20	24	County:	Routt			Filenan	ne:	042	
	User:	RAR		-							
	Agency of	or organiza	ion n	ame: I	ORMS						
<u>]</u>	HOURLY	EQUIPM	ENT	COST							
	Basic Ma	achine:		Cat D10T -	10SU	_ Horsepo		=	574		
	Ripper A	ttachment:	_3	-Shank Ri	pper	_ Shift Ba		-	1 per d	_ •	
						Data So	urce:	-	(CRG))	
(Cost Break	cdown:									
_	COSt Bicai	<u>kuowii.</u>					Utili	zation			
							%				
	Ownersh	ip Cost/Ho	ur:		\$257.39		NA				
	Operating	g Cost/Hou	r:	-	\$196.93		100				
	Ripper O	wnership (Cost/F	Iour:	\$25.02		NA				
		perating Co		our:	\$11.73		100				
		Cost/Hour		-	\$38.59		NA				
	Total Un	it Cost/Hou	ır:	-	\$529.66		_				
	Total Fle	et Cost/Ho	ur:		\$529.66						
							_				
<u>I</u>	MATERI	AL QUAN	TITI	ES	Selecte method	ed estimatir	ng	Are	a		
<u> </u>	Alternate I	Methods:			memod	J.					
smic:	NA				Volume:	NA		BCY	NA		
ea:	2.10	a	cres	Rip Dep	oth (ft):	1.50		Volum e:	5,082		BCY CCY
	Source of	f estimated	quan	tity:	Map 2	2.05.3 M1E	B and A	\			
<u>]</u>	HOURLY	PRODUC	CTIO	<u>N</u>							
c	Saiamia										
2	<u>Seismic:</u> Seismic '	Valocity			NA			feet/se	cond		
	Seisinic	velocity:			NA			reet/se	cona		

Area:				
Average Ripping Depth:	1.50	feet/pass		
Average Ripping Width:	8.67	feet/pass		
Average Ripping Length:	250.00	feet/pass		
Average Dozer Speed:	88.00	feet/minute		
Average Maneuver Time:	0.25	minutes/pass		
Production per unit area:	0.966	acres/hour		
Job Condition Correction Factors				
Unadjusted Hourly Unit Production:	0.966	Acres/hr		
Site Altitude:	6,800	feet		
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day)		
Net Correction:	0.83	multiplier		
Adjusted Hourly Unit Production:	0.80	Acres/hr		
Adjusted Hourly Fleet Production:	0.80	Acres/hr		
JOB TIME AND COST				
Fleet size:1 Grader(s)	Total job time:	2.62	_ Hours	

Total job cost: **\$1,387**

Unit cost: \$660.667 Per acre

Task description	on: Regra	ide Haul	lroad A/A	1 Reduction		
Peabody Sag	ge Creek	Permit	Action:	BondReview	Permit/Jol	o#: <u>C2009087</u>
PROJECT IDE	ENTIFICATION	<u>ON</u>				
Task #: 045 Date: 12/ User: RA	18/2024 Co	ate: ounty:	Colorad Routt	0	Abbreviation: Filename:	None 045
Agency or org	anization name	e: DF	RMS			
HOUDI V FOI	HDMENT CO	NOTE:				
HOURLY EQU	UIPMENT CC	<u> </u>				
Basic Machine:	Cat D10T -	10SU		_		
Horsepower:	574	1		_		
Blade Type: Attachment:	Semi-Unive			<u> </u>		
Shift Basis:	1 per day	pei		_		
Data Source:	(CRG)			_		
	(6116)			_		
Cost Breakdown	n:					
				Utilization %		
Ownership	\$257.3	Q		NA		
Cost/Hour:	Ψ231.3			1171		
Operating	\$196.9	13		100		
Cost/Hour:						
Ripper own.	\$25.02			NA		
Cost/Hour:						
Ripper op. Cost/Hour:	\$11.73	1		100		
Operator						
Cost/Hour:	\$38.59	1		NA		
Coba Hour.	·			T 17 T		
Total unit	\$529.6	6				
Cost/Hour:	•					
Total Fleet	\$1,059	.31				
Cost/Hour:						

MATERIAL QUANTITIES

Initial	17,182		
Volume: Swell factor:	1.000		
Loose			
volume:	17,182 LO	CY	
Source of estin	nated	Division of	Reclamation, Mining & Safety
Source of esting factor:	nated swell	Cat Handbo	ok
HOURLY PRO	DUCTION	<u>N</u>	
Average push	distance:	250 feet	
Unadjusted hor production:	urly	754.3 LCY/hr	•
Materials cons description:	istency	Rock, wel	l ripped or blasted 0.8
Average push	0 %		
gradient:		0 C	
Average site	6,80	00 feet	
altitude:			
Material weigh	nt: 2,65	60 lbs/LCY	
Weight description:	Dec	omposed rock -	- 25% Rock, 75% Earth
Job Condition C	orrection F	actor Source	<u>ce</u>
Operator Skill:		0.750	(AVG.)
Material consis	•	0.800	(CAT HB)
Dozing method	1:	1.000	(GEN.)
Visibility:		1.000	(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 Weig	nt:	0.868	(CAT HB)
Blade type:		1.000	(PAT)
Net correction:	:	0.3458	
Adjusted unit production:	26	50.84 LCY/hr	

Adjusted fleet production:

521.68 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$2.031/LCY

Total job time: 32.94 Hours

Total job cost: **\$34,889**

Task description	n: Reg	Regrade Haulroad B Reduction					
Peabody Sag Mine	e Creek	Permit Action:	BondReview	Permit/Job	o#: <u>C2009087</u>		
PROJECT IDE	NTIFICAT	<u>'ION</u>					
Task #: 046 Date: 12/1 User: RAI	8/2024	State: Colorad County: Routt	0	Abbreviation: Filename:	None 046		
Agency or orga	nization naı	ne: DRMS					
HOURLY EQU	IPMENT (COST					
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Data Source:	Cat D10T 574 Semi-Uni 3-shank r 1 per day (CRG)	versal					
Cost Breakdown Ownership Cost/Hour:	: \$257	.39	Utilization % NA				
Operating Cost/Hour:	\$196	.93	100				
Ripper own. Cost/Hour:	\$25.0)2	NA				
Ripper op. Cost/Hour:	\$11.	73	100				
Operator Cost/Hour:	\$38.	59	NA				
Total unit	\$529	.66					
Cost/Hour: Total Fleet Cost/Hour:	\$1,05	59.31					

MATERIAL QUANTITIES

Initial 11,616 Volume:

Swell factor: 1.000

Loose volume:

11,616 LCY

Source of estimated

Division of Reclamation, Mining & Safety

volume:

Source of estimated swell Cat Handbook

factor:

HOURLY PRODUCTION

Average push distance: 250 feet

Unadjusted hourly

754.3 LCY/hr

production:

Materials consistency

description:

Rock, well ripped or blasted 0.8

(PAT)

0 % Average push

gradient:

Average site 6,800 feet

altitude:

Source

Material weight: 2,650 lbs/LCY

Job Condition Correction Factor

Decomposed rock - 25% Rock, 75% Earth Weight

description:

Blade type:

Operator Skill: (AB.AVG.) 0.900 Material consistency: 0.800 (CAT HB) Dozing method: 1.200 (S-BY-S)Visibility: 1.000 (AVG.) Job efficiency: (1 SHIFT/DAY) 0.830 Spoil pile: 0.600 (FND-SF) Push gradient: (CAT HB) 1.000

Altitude: (CAT HB) 1.000 Material Weight: (CAT HB) 0.868

1.000

0.3735

Net correction:

Adjusted unit production:

Adjusted fleet production:

281.73 LCY/hr

563.46 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$1.880/LCY

Total job time: 20.62 Hours Total job cost: \$21,838

Swell factor: 1.000

Peabody Mine	Sage Creel	R Permi	t Action:	BondReview	Permit/Job	#: <u>C200908</u>
PROJECT	<u>IDENTIFI</u>	<u>CATION</u>				
Task #:	047	State:	Colorad	0	Abbreviation:	None
Date:	12/18/2024	County:	Routt		Filename:	047
User:	RAR					
Agency or	organization	n name: D	RMS			
HOURLY	EQUIPME	NT COST				
Basic Machine:	-	010T - 10SU		_		
Horsepow				<u> </u>		
Blade Typ		-Universal		<u> </u>		
Attachmen		nk ripper		<u>—</u>		
Shift Basis				<u>—</u>		
Data Source	ce: (CRC	J)		_		
Cost Breake	lown:			Utilization %		
Ownership)	to 57, 20				
Cost/Hour		\$257.39		NA		
Operating		\$196.93		100		
Cost/Hour	: <u> </u>	p190.93		100		
Ripper ow		\$25.02		NA		
Cost/Hour	: <u> </u>			1,11		
Ripper op.		\$11.73		100		
Cost/Hour						
Operator Cost/Hour	:	\$38.59		NA		
	_	2500 66		I		
Total unit		\$529.66				
Cost/Hour		1 050 21				
Total Fleet		51,059.31				
Cost/Hour						
MATERIA	L QUANTI	TIEC				

Loose volume:	5,178 LC	Y	
Source of estimat	ed	Division of R	eclamation, Mining & Safety
Source of estimat	ed swell	Cat Handbool	K
factor:			
HOURLY PROD	<u>UCTION</u>	<u>1</u>	
Average push dis	tanca	250 feet	
Unadjusted hourl	_	754.3 LCY/hr	
production:	y	754.5 LC 1/III	
F	=		
Materials consisted description:	ency	Rock, well	ripped or blasted 0.8
Average push gradient:	0 %		
Average site altitude:	6,80	0 feet	
Material weight:	2,65	0 lbs/LCY	
Weight	Dece	omposed rock - 2	25% Rock, 75% Earth
description:		1	,
Job Condition Cor	rection Fa		
Operator Skill:	-	0.750	(AVG.)
Material consister	ncy:	0.800	(CAT HB)
Dozing method:	-	1.000	(GEN.)
Visibility:	=	1.000	(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:	=	0.868	(CAT HB)
Blade type:	=	1.000	(PAT)
Net correction:	-	0.3458	
Adjusted unit production:	26	0.84 LCY/hr	
Adjusted fleet production:	52	1.68 LCY/hr	
JOB TIME AND	COST		
Fleet size:	2 Doze	er(s)	
_ 1000 0120.		(~)	

Unit cost: \$2.031/LCY

Total job time: 9.93 Hours

Task descripti	on: Reg	grade Upper Sump			
Peabody Satte: Mine	ige Creek	Permit Action:	BondReview	Permit/Job	p#: <u>C2009087</u>
PROJECT ID	ENTIFICAT	<u>rion</u>			
	0 /18/2024 AR	State: Colorac County: Routt	lo	Abbreviation: Filename:	None 050
Agency or org	ganization na	me: DRMS			
HOURLY EQ					
HOURLI EQ	OII WILINI	<u> </u>			
Basic Machine:	Cat D107	Γ - 10SU			
Horsepower:	574				
Blade Type:	Semi-Un		<u> </u>		
Attachment: Shift Basis:	3-shank 1				
Data Source:	1 per day (CRG)				
Data Source.	(CKG)		<u></u>		
Cost Breakdow	'n.				
Cost Breakes W	<u></u> .		Utilization %		
Ownership	Φ2.57	7.20			
Cost/Hour:	\$257	1.39	NA		
Operating	\$104	6.02	100		
Cost/Hour:	\$196).93	100		
Ripper own.	\$25.	02	NA		
Cost/Hour:	Ψ23.		IVA		
Ripper op.	\$0.0	0	0		
Cost/Hour:			0		
Operator Cost/Hour:	\$38.	59	NA		
Total unit Cost/Hour:	\$517	7.93			
Total Fleet Cost/Hour:	\$517	1.93			

MATERIAL QUANTITIES

Initial Volume: Swell factor:	3,388 1.125		
Loose volume:	3,812 LCY	<i>Y</i>	
Source of estin volume: Source of estin factor:		Division of Cat Hand	of Reclamation, Mining & Safety book
HOURLY PRO	DUCTION		
Average push of Unadjusted how production:	_	200 feet 946.0 LCY	/hr
Materials considescription:	istency	Compa	cted fill or embankment 0.9
Average push gradient: Average site altitude:	6,800) feet	_
Material weigh	at: 2,650) lbs/LCY	
Weight description:	Deco	omposed roc	ek - 25% Rock, 75% Earth
Job Condition C	orrection Fa	ctor So	urce
Operator Skill:		0.750	(AVG.)
Material consis	_	0.900	(CAT HB))
Dozing method	d:	1.000	(GEN.)
Visibility:	_	1.000	(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 Weigl	nt:	0.868	(CAT HB)
Blade type:	_	1.000	(PAT)
Net correction:	_	0.3890	
Adjusted unit	36	7.99 LCY/hi	r

Adjusted fleet production:

367.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.407/LCY

Total job time: 10.36 Hours

Total job cost: \$5,364

Task descriptio	n: Reg	grade Lower Sum	ı p		
Peabody Sag Mine	ge Creek	Permit Action	: BondReview	Permit/Jol	o#: <u>C2009087</u>
PROJECT IDE	ENTIFICAT	<u>'ION</u>			
		State: Colora County: Routt	ado	Abbreviation: Filename:	None 051
User: RA	R				
Agency or orga	anization na	me: DRMS			
<u>HOURLY EQU</u>	JIPMENT (COST			
Basic	Cat D107	r 100H			
Machine:	Cat D101	- 1080			
Horsepower:	574				
Blade Type:	Semi-Uni	iversal			
Attachment:	3-shank r	ipper			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown	· ·				
COSt DICARGOWI	<u>ı</u> .		Utilization %		
Ownership					
Cost/Hour:	\$257	'.39	NA		
Operating Operating	+				
Cost/Hour:	\$196	o.93	100		
Ripper own.			37.1		
Cost/Hour:	\$25.	02	NA		
Ripper op.					
Cost/Hour:	\$0.0	U	0		
Operator					
Cost/Hour:	\$38.	59	NA		
Total unit	\$517	7.02			
Cost/Hour:	\$317	.73			
	Φ <i>E</i> 15	7.02			
Total Fleet	\$517	.93			
Cost/Hour:					

MATERIAL QUANTITIES

Initial Volume: Swell factor: Loose volume:	2,420 1.125 2,723 L	CY	
Source of estir	mated	Division of	Reclamation, Mining & Safety
volume:	naicu	Division of	Reclamation, winning & Safety
Source of estir factor:	nated swe	ll Cat Handbo	ook
HOURLY PRO	DUCTIO	<u>ON</u>	
Average push		200 feet	
Unadjusted ho production:	urly	946.0 LCY/hi	r
Materials cons description:	istency	Compacte	ed fill or embankment 0.9
Average push	0	%	
gradient: Average site altitude:	6,	800 feet	
Material weigh	nt:	650 lbs/LCY	
Weight description:	De	ecomposed rock	- 25% Rock, 75% Earth
Job Condition C	Correction	Factor Source	ce
Operator Skill		0.750	(AVG.)
Material consi	stency:	0.900	(CAT HB))
Dozing method	d:	1.000	(GEN.)
Visibility:		1.000	(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 Weig	ht:	0.868	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	:	0.3890	
Adjusted unit production:		367.99 LCY/hr	

Adjusted fleet production:

367.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.407/LCY

Total job time: **7.40** Hours

Total job cost: \$3,832

MOTOR GRADER WORK

-	Γask description: Reg	grade Ar	ea Ditches					
te:	Peabody Sage Creek Mine	Perm	it Action:	BondRev	view	Permit	t/Job#:	C2009087
<u>P</u>	ROJECT IDENTIFICAT	ΓΙΟΝ						
,	Task #: 052	State:	Colorado	ı		Abbreviation	on: _]	None
	Date: 12/18/2024 User: RAR	County:	Routt			Filename:	(052
	Agency or organization na	me: <u>I</u>	ORMS					
<u>H</u>	OURLY EQUIPMENT	<u>COST</u>						
	Basic Machine: CA	AT 14M		Horsepo	wer:	25	9	
-	Ripper Attachment: <u>M</u>	ulti-Shanl	k Ripper	Shift Ba Data So			oer day RG)	
<u>C</u>	ost Breakdown:				Utiliza	ation		
					%	ation		
(Ownership Cost/Hour:	_	\$129.81		NA			
(Operating Cost/Hour:		\$89.13		100			
	Ripper Ownership Cost/He	our:	\$5.75		NA			
	Ripper Operating Cost/Ho	ur:	\$0.00		0			
(Operator Cost/Hour:	_	\$27.76		NA			
,	Total Unit Cost/Hour:	=	\$252.45		-			
,	Total Fleet Cost/Hour:	-	\$252.45		-			
<u>N</u>	IATERIAL QUANTITII	ES						
,	Total Area to be graded or	ripped:	2.00					acres
	Source of estimated acreas	ge:	PAP T	Table 2.05.3	3-E2-6			
<u>H</u>	OURLY PRODUCTION	<u>1</u>						
	Average Grader Speed:		1.75			mph		
	Selected Application:		Ditc	h building/	cleaning	g (0-3 mph)) - 1.75	,
	Selected Blade Angle:		_30			degrees		
	Effective Blade Length:		12.1	0		feet		
	Width of blade overlap per	r pass:	2.00			feet		
	Net grading or ripping wid			0		feet		
	Unadjusted Hourly Unit P	roduction	. 2.14	24		acres/hour		

<u>Jo</u>	<u>b C</u>	<u>Condition</u>	Correction	<u>Factors</u>	Site Altitude:	<u>6800</u> feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.90	(1sh/d, fav.)
Net Correction:	0.9000	multiplier

Adjusted Hourly Unit Production: 1.9282 acres/Hour Adjusted Hourly Fleet Production: 1.9282 acres/Hour

JOB TIME AND COST

Fleet size:	_1	Grader(s)	Total job time:	1.04	Hours
Unit cost:	\$130.93	per acre	Total job cost:	\$262	

Task description	on: Ba	Backfill and Regrade Microwave Tower Pad (MR22)					
Peabody Sa	ge Creek	Permit A	ction:	BondReview	Permit/Job	p#: <u>C2009087</u>	
PROJECT ID	ENTIFICA	TION					
Task #: 05 Date: 12 User: RA	/18/2024		Colorado Routt	0	Abbreviation: Filename:	None 053	
Agency or org	ganization n	ame: DRM	1S				
HOURLY EQ	<u>UIPMENT</u>	COST					
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Data Source:	Cat D67 200 Straight 3-shank 1 per da (CRG)	ripper		 			
Cost Breakdow	<u>n</u> :			Utilization %			
Ownership Cost/Hour:	\$99	9.72		NA			
Operating Cost/Hour:	\$71	1.22		100			
Ripper own. Cost/Hour:	\$9.	25		NA			
Ripper op. Cost/Hour:	\$0.	00		0			
Operator Cost/Hour:	\$38	3.59		NA			
Total unit Cost/Hour:	\$21	8.78					
Total Fleet Cost/Hour:	\$21	8.78					

MATERIAL QUANTITIES

Initial Volume:	24		
Swell factor:	1.125		
Loose volume:	27 LCY		
Source of estimates Source of estimates factor:		Division Cat Hand	of Reclamation, Mining & Safety
HOURLY PRO	DUCTION		
Average push of Unadjusted ho production:	_	50 feet 444.6 LCY	7/hr
Materials cons description:	istency	Compa	cted fill or embankment 0.9
Average push gradient: Average site altitude:	6,500) feet	_
Material weigh	nt: 2,650	lbs/LCY	
Weight description:	Deco	omposed roo	ck - 25% Rock, 75% Earth
Job Condition C	orrection Fa	ctor So	ource
Operator Skill:		0.900	(AB.AVG.)
Material consis	_	0.900	(CAT HB))
Dozing method	_	1.000	(GEN.)
Visibility:	_	0.800	(POOR)
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 Weig	ht:	0.868	(CAT HB)
Blade type:	_	1.000	(PAT)
Net correction:	_	0.3735	
Adjusted unit	160	5.06 LCY/h	r

Adjusted fleet production:

166.06 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.317/LCY

Total job time: **0.16** Hours

Total job cost: \$36

Task description	on: Rep	lace Topsoil on M	icrowave Tower	Pad	
Peabody Sage: Mine	ge Creek	Permit Action:	BondReview	Permit/Job	p#: <u>C2009087</u>
PROJECT IDE	ENTIFICAT	<u>ION</u>			
Task #: 054		State: Colorac	lo	Abbreviation:	None
Date: $\frac{12}{\text{N}}$		County: Routt		Filename:	054
Agency or org	anization naı	ne: DRMS			
HOURLY EQU	JIPMENT (COST			
Basic		I CD			
Machine:	Cat D6T	LGP			
Horsepower:	200				
Blade Type:	Straight				
Attachment:	3-shank r	pper			
Shift Basis:	1 per day				
Data Source:	(CRG)		<u> </u>		
Cost Breakdown	<u>ı</u> :		ı		
			<u>Utilization %</u>		
Ownership Cost/Hour:	\$99.	72	NA		
Operating					
Cost/Hour:	\$71.2	22	100		
Ripper own. Cost/Hour:	\$9.25	5	NA		
Ripper op. Cost/Hour:	\$0.00)	0		
Operator Cost/Hour:	\$38.5	59	NA		
Total unit	\$218	.78			
Cost/Hour: Total Fleet Cost/Hour:	\$218	.78			

MATERIAL QUANTITIES

Initial Volume:	16			
Swell factor:	1.000			
Loose volume:	16 LCY			
Source of estin volume: Source of estin factor:		Division of Cat Handle		on, Mining & Safety
HOURLY PRO	DUCTION			
Average push of Unadjusted how production:		50 feet 444.6 LCY/	hr	
Materials considescription:	stency	Partly co	onsolidated s	tockpile 1.1
Average push gradient: Average site altitude:	6,500) feet		
Material weigh	t: 2,550) lbs/LCY		
Weight description:	Earth	ı - Dry packe	ed	
Job Condition C	orrection Fa	ctor Sou	Irco	
Operator Skill:	offection i a	0.900		(AB.AVG.)
Material consis	tency:	1.100		(CAT HB)
Dozing method	_	1.000		(GEN.)
Visibility:	_	0.800		(POOR)
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 Weigl	nt:	0.902	((CAT HB)
Blade type:		1.000	((PAT)
Net correction:	_	0.4744		
Adjusted unit	210).92 LCY/hr		

Adjusted fleet production:

210.92 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.037/LCY

Total job time: **0.08** Hours

Total job cost: \$17

SCRAPER TEAM WORK

zation name	ounty:	Colorado Routt AS t basis: 1 per day	Abbre Filena	viation: Norme: 060	
zation name	ounty: I	Routt AS			
zation name	: <u>DRN</u>	1S	Filena	me: <u>060</u>	
<u>PMENT</u> (COSTShift	hacie: 1 nar day			
		basis. I per uay			
Description					
		Cat 637G w/push	-pull		
		Cat D8T - 8SU			
nt -Load Are	ea:	NA			
	-				
e –Motor G	rader:		000 G 1		
		Water Tanker, 10	,000 Gal.		
Scraper	Dozer	Load Area	1		Water
100	100	NIA			Truck 25
	_				\$111.67
-				·	\$29.61
	-				NA
		1111		1 11 1	
NA	\$0.00	NA	NA	\$0.00	\$0.00
NA NA	\$0.00	NA NA	NA NA	\$0.00 \$0.00	\$0.00 \$0.00
NA NA \$30.90	\$0.00 \$0.00 \$38.59	NA	NA NA NA	\$0.00 \$0.00 \$27.76	\$0.00 \$0.00 \$21.12
NA	\$0.00	NA NA	NA	\$0.00	\$0.00
NA \$30.90	\$0.00 \$38.59	NA NA	NA NA	\$0.00 \$27.76	\$0.00 \$21.12
,	Scraper Scraper 100 \$281.32 \$319.35 NA	Scraper Dozer 100 100 \$281.32 \$173.3 \$319.35 \$109.7	Cat D8T - 8SU NA	NA	Cat D8T - 8SU

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY Struck Volume: 24.00 LCY
Material Earth - Dry packed Heaped Volume: 34.00 LCY

description:

Rated Payload: 81,600 pounds Average 29.00 LCY

Volume:

Payload 32.00 LCY Adjusted **29.00** LCY

Capacity: Capacity:

Cycle Time:

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

<u>Job Condition Correction:</u> Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	450.00	-2.20	4.00	1.80	2939	0.15

Haul Time: 1.26 minutes

Return Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel
	(Ft)	(%)	(%)	(%)	(fpm)	Time (min)
1	450.00	2.20	4.00	6.20	2638	0.35
2	2550.00	2.10	4.00	6.10	2638	0.97
3	300.00	10.00	4.00	14.00	1073	0.09

Return Time: 1.41 minutes

Total Scraper team cycle time:
Adjusted for job conditions:

4.27 minutes
676.44 LCY/Hour

Adjusted s	-	eam (unit) ho	urly production: hourly production:	2 676.44 676.44	Scraper(s) LCY/Hour LCY/Hour
3	unit production mber of Scrape	-	814.99 LCY/Hour		
JOB TIME	AND COST				
Fleet size:	_1	_ Team(s)	Total job time:	30.32	Hours
Unit cost:	\$2.849	_ /LCY	Total job cost:	\$58,424	

SCRAPER TEAM WORK

	Task descri	ption:	Replace	Topsoi	l on Por	tal Face-Up	Area			
Site:	Peabody Mine	Sage Cree	k P	Permit A	action:	BondRevi	ew	Permit/Jo	b#: <u>C</u>	C2009087
<u>F</u>	PROJECT	<u>IDENTIFI</u>	CATION	<u>[</u>						
	_	061	State		Colorado)		Abbreviation:	Non	e
	Date: User:	12/18/2024 RAR	Cour	nty: <u>l</u>	Routt]	Filename:	061	
	Agency or	organizatio	n name:	DRN	ЛS					
<u>I</u>	HOURLY I	EQUIPME	NT CO	STShif	t basis:	1 per day				
	Eani	pment Desc	rintion							
=	-Scraper:	ринен Везе	приоп		Cat 63'	7G w/push-p	oull			
	-Dozer:					T - 8SU	,			
_		quipment -L	oad Area	•	NA	1 050				
	-Dump Are			•	NA					
_		itenance –M	otor Grad	der:	CAT 1	4M				
-Water Truck: Water Tanker, 10,000 Gal.										
_	,, 00001 110				.,,	1000000		•		
(Cost Break	down: S	Scraper W	ork Tea	am Sup	port Equipm	ent I	Maintenance E	quipme	ent
		Scra		Dozer		Load Area	Dum			Water
			1				Area	-	der	Truck
%Utiliza	tion-machin	ne: 100		100]	NA	NA	25		25
Ownersh	ip cost/hou	r: \$28	1.32	\$173.3	32	NA	NA	\$129	9.81	\$111.67
	g cost/hour:		9.35	\$109.7		NA	NA	\$22.	28	\$29.61
	tion-ripper:			NA		NA	NA	NA		NA
	wn. cost/ho			\$0.00		NA	NA	\$0.0	0	\$0.00
	p. cost/hour			\$0.00		NA	NA	\$0.0		\$0.00
	cost/hour:	\$30.	90	\$38.59		NA	NA	\$27.		\$21.12
Unit Sub		\$63		\$321.6		NA	NA	\$179		\$162.40
Number		2	,	1		0	0	1		1
Group Su		Woı	·k·	\$1,584		Support:	\$0.0		nt.	\$342.25
				7.01	CCY LCY	Swell facto	r:	1.125		
		estimated vo			Division Cat Han		ation, N	Mining & Safe	ty	

LCY

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY Struck Volume: 24.00 LCY Earth - Dry packed Material Heaped Volume: 34.00 LCY description:

Rated Payload: 81,600 pounds Average 29.00 Volume:

32.00 LCY Adjusted Payload 29.00 **LCY** Capacity:

Capacity:

Cycle Time:

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

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	750.00	-5.30	4.00	-1.30	2972	0.32

Haul Time: 1.43 minutes

Return Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel
	(Ft)	(%)	(%)	(%)	(fpm)	Time (min)
1	750.00	5.30	4.00	9.30	1711	0.51
2	2550.00	2.10	4.00	6.10	2638	1.06
3	300.00	10.00	4.00	14.00	1073	0.09

			Return Time:	1.66	minutes
Total Scraper team cycle time:				4.69	minutes
Adjusted for job conditions:				615.86	LCY/Hour
Selected Number of Scrapers:				2	Scraper(s)
Adjusted single scraper team (unit) hourly production:				615.86	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:				615.86	LCY/Hour
· ·	unit producti mber of Scra		742.00 LCY/Houi		
JOB TIME	AND COST				
Fleet size:	1	Team(s)	Total job time:	46.56	Hours
Unit cost:	\$3.129	/LCY	Total job cost:	\$89,727	

SCRAPER TEAM WORK

	Task descri	ption:	Rep	lace Topsoi	l on Sou	th Utility P	Pads			
Site:	Peabody Mine	Sage Cro	eek	Permit A	action:	BondRevi	iew	Permit/Jo	ob#:	C2009087
<u> </u>	PROJECT	IDENTII	FICAT	<u>ION</u>						
	Task #:	062		State:	Colorado	1		Abbreviation:		one
	Date: 12/19/2024 County: Routt User: RAR							Filename:	06	2
	Agency or	organizat	ion nar	me: DRM	ИS					
<u>I</u>	HOURLY I	EQUIPM	ENT	COSTShif	t basis: 1	l per day				
	Equi	pment De	scriptio	on						
	-Scraper:				Cat 637	7G w/push-j	pull			
	-Dozer:				Cat D8	T - 8SU				
Support Equipment -Load Area: NA										
-Dump Area: NA										
Road Maintenance – Motor Grader: CAT 14M										
_	-Water Tru	ıck:			Water	Γanker, 10,0	000 Ga	1.		
_		_	_		_					
(Cost Break							Maintenance 1		
		Sc	raper	Dozer		Load Area	Dun	-		Water
0/77.111		4.0		100			Area		ader	Truck
	tion-machin			100		NA	NA	25	20.01	25
	ip cost/hou		281.32	\$173.3		NA	NA		29.81	\$111.67
	g cost/hour:		19.35	\$109.7		NA	NA		2.28	\$29.61
	tion-ripper:			NA		NA	NA	NA		NA
	wn. cost/ho			\$0.00		NA	NA	\$0.		\$0.00
	p. cost/hour			\$0.00		NA	NA	\$0.		\$0.00
1	cost/hour:		80.90	\$38.59		NA	NA		7.76	\$21.12
Unit Sub			31.57	\$321.6	52 I	NA	NA	\$17	79.85	\$162.40
Number		2		1	()	0	1		1
Group Su	ubtotals:	W	ork:	\$1,584	1.76	Support:	\$0.0	0 Ma	int:	\$342.25
	Total work t									
	Initial volu	me· 1	5,810		CCY	Swell factor	or.	1.125		
	Loose volu		7,786		LCY	Swell facto	_	1.125		
	LOUSC VOIU	1111C. <u>1</u>	7,700		LCI					
	Source of e			_	Division Cat Han		ation, I	Mining & Safe	ety	

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:2,550 lbs/LCYStruck Volume:24.00LCYMaterialEarth - Dry packedHeaped Volume:34.00LCY

description:

Rated Payload: 81,600 pounds Average 29.00 LCY

Volume:

Payload 32.00 LCY Adjusted 29.00 LCY

Capacity: Capacity:

Cycle Time:

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

<u>Job Condition Correction:</u> Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	750.00	-6.67	4.00	-2.67	2972	0.32
2	1050.00	0.00	4.00	4.00	2394	0.15

Haul Time: **0.47** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	1050.00	0.00	4.00	4.00	2910	0.52
2	750.00	6.67	4.00	10.67	1434	0.31

Return Time: **0.83** minutes

Total Scraper team cycle time:

Adjusted for job conditions:

Selected Number of Scrapers:

Adjusted single scraper team (unit) hourly production:

2.90

ECY/Hour

Scraper(s)

LCY/Hour

996.00

LCY/Hour

Adjusted r	nultiple scraper	996.00	LCY/Hour		
· ·	unit production mber of Scrape		200.00 LCY/Hour		
JOB TIME	AND COST				
Fleet size:	_1	Team(s)	Total job time:	17.86	Hours
Unit cost:	\$1.935	/LCY	Total job cost:	\$34,412	

SCRAPER TEAM WORK

7	Γask descri	ption: Re	eplace Topsoi	il on Sou	th Facilitie	es Stora	age Areas		
Site:	Peabody Mine	Sage Creek	Permit A	Action:	BondRev	iew	Permit/Job	»#: _	C2009087
<u>P</u>	ROJECT 1	IDENTIFICA	TION						
		063	· · · · · · · · · · · · · · · · · · ·	Colorado)		Abbreviation:	No	
	Date: 12/19/2024 County: Routt User: RAR						Filename:	_063	3
	Agency or	organization n	ame: DRI	MS					
<u>H</u>	OURLY E	QUIPMENT	_ COSTShif	t basis:	1 per day				
	Equi	oment Descrip	tion						
	-Scraper:			Cat 63'	7G w/push-	pull			
	-Dozer:		Cat D8	T - 8SU					
Support Equipment -Load Area: NA									
-Dump Area:									
	Road Main	CAT 1							
	-Water Tru	ck:		Water '	Tanker, 10,0	000 Ga	ıl.		
<u>C</u>	ost Break	lown: Scr	aper Work Te	am Sup	port Equipn	nent	Maintenance Ed	quipn	nent
		Scrape	Dozer	•	Load Area	Dun	-		Water
						Are		er	Truck
	ion-machin		100		NA	NA	25		25
	p cost/hour		· ·		NA	NA	\$129		\$111.67
	cost/hour:				NA	NA	\$22.2	28	\$29.61
	ion-ripper:	NA	NA		NA	NA	NA		NA
	vn. cost/hoi		\$0.00		NA	NA	\$0.00		\$0.00
	. cost/hour		\$0.00		NA	NA	\$0.00		\$0.00
1	cost/hour:	\$30.90	\$38.59		NA	NA	\$27.7		\$21.12
Unit Subt		\$631.5	7 \$321.0	62	NA	NA	\$179	.85	\$162.40
Number o		2	1		0	0	1		1
Group Su	btotals:	Work:	\$1,584	4.76	Support:	\$0.0	00 Main	ıt:	\$342.25
		eam cost/hour:							
]	Initial volu	me: 22,759)	CCY	Swell factor	or:	1.125		
	Loose volu			LCY		_			
		stimated volui	_	Division Cat Han		ation, l	Mining & Safety	y	

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY Struck Volume: 24.00 LCY
Material Earth - Dry packed Heaped Volume: 34.00 LCY

description:

Rated Payload: 81,600 pounds Average 29.00 LCY

Volume:

Payload 32.00 LCY Adjusted **29.00** LCY

Capacity: Capacity:

Cycle Time:

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

<u>Job Condition Correction:</u> Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	500.00	-6.67	4.00	-2.67	2972	0.23
2	2500.00	-2.00	4.00	2.00	2939	0.85
3	1000.00	0.00	4.00	4.00	2394	0.13

Haul Time: 1.21 minutes

Return Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel
	(Ft)	(%)	(%)	(%)	(fpm)	Time (min)
1	1000.00	0.00	4.00	4.00	2910	0.51
2	2500.00	2.00	4.00	6.00	2638	0.75
3	500.00	6.67	4.00	10.67	1434	0.18

Return Time: **1.44** minutes

Total Scraper team cycle time:

Adjusted for job conditions:

4.25 minutes

679.62 LCY/Hour

Adjusted s	Number of Scrapsingle scraper to multiple scraper	2 679.62 679.62	Scraper(s) LCY/Hour LCY/Hour		
•	unit production imber of Scrape		818.82 LCY/Hour		
JOB TIME	AND COST				
Fleet size:	1	Team(s)	Total job time:	37.67	Hours
Unit cost:	\$2.835	_ /LCY	Total job cost:	\$72,597	

SCRAPER TEAM WORK

Task description	n: Replac	e Topsoi	il on Hau	ılroad A/A-	1 Redu	ction		
Site: Peabody Sag Mine	e Creek	Permit A	Action:	BondRevi	ew	Permit/	Job#:	C2009087
PROJECT IDE	<u>NTIFICATIO</u>	<u>N</u>						
Task #: 064	Stat		Colorado			Abbreviation: None		
Date: $\frac{12/1}{\text{NAP}}$		unty:	Routt		F	ilename:	_06	4
Agency or orga	nization name:	DRM	MS					
HOURLY EQU	IPMENT C	OSTShif	t basis:	l per day				
	nt Description		1					
-Scraper:			7G w/push-p	oull				
-Dozer: Support Equipm	NA	T - 8SU						
-Dump Area:	Cat D8T - 8SU							
Road Maintena	nce –Motor Gra	CAT 1						
-Water Truck: Water Tanker, 10,000 Gal.								
Cost Breakdown	1	Work Te		port Equipm Load Area		Maintenance	e Equipr	ment Water
	Scraper	Dozei]	Loau Alea	Dum _j Area	L.	rader	Truck
6 Utilization-machine:	100	100]	NA	25	25		25
Ownership cost/hour:	\$281.32	\$173.3	32	NA	\$173	.32 \$1	29.81	\$111.67
Operating cost/hour:	\$319.35	\$109.7	71	NA	\$27.4	-3 \$2	22.28	\$29.61
6 Utilization-ripper:	NA	NA]	NA	NA	N.	A	NA
Ripper own. cost/hour:	NA	\$0.00]	NA	\$0.00	\$(0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00		NA	\$0.00		0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59		NA	\$38.5		27.76	\$21.12
Jnit Subtotals:	\$631.57	\$321.6		NA	\$239	.33 \$1	179.85	\$162.40
Number of Units:	2	1		0	1	1		1
Group Subtotals:	Work:	\$1,584	4.76	Support:	\$239	.33 M	aint:	\$342.25
Total work team	cost/hour: \$2,1	66.34						
MATERIAL QU	<u>UANTITIES</u>							
Initial volume: Loose volume:	11,454 12,886		CCY LCY	Swell facto	r: <u>1</u>	.125		
Source of estim	ated volume:		Division	n of Reclama	ation. N	lining & Sa	fetv	

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:2,550 lbs/LCYStruck Volume:24.00LCYMaterialEarth - Dry packedHeaped Volume:34.00LCY

description:

Rated Payload: 81,600 pounds Average 29.00 LCY

Payload 32.00 LCY Adjusted 29.00 LCY Capacity:

Cycle Time:

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

<u>Job Condition Correction:</u> Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	3728.00	2.00	4.00	6.00	1477	2.60

Haul Time: 2.60 minutes

Return Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel
	(Ft)	(%)	(%)	(%)	(fpm)	Time (min)
1	3728.00	-2.00	4.00	2.00	2960	1.39

Return Time: 1.39 minutes

Total Scraper team cycle time:

Adjusted for job conditions:

Selected Number of Scrapers:

Adjusted single scraper team (unit) hourly production:

5.59

minutes

LCY/Hour

Scraper(s)

LCY/Hour

Adjusted 1	multiple scrape	516.71	LCY/Hour		
3	unit production mber of Scrap		622.54 LCY/Hour		
JOB TIME	AND COST				
Fleet size:	1	_ Team(s)	Total job time:	24.94	Hours
Unit cost:	\$4.193	/LCY	Total job cost:	\$54,025	

SCRAPER TEAM WORK

Task description: Replace Topsoil on Haulroad B Reduction								
Site: Peabody Sage Mine	Creek	Permit A	Action:	BondRevie	<u>ew</u>	Permit/Job#	<u>#: C2</u>	009087
PROJECT IDEN	TIFICATIO	<u>N</u>						
Task #: 065 Date: 12/19 User: RAR			<u>Colorado</u> Routt			reviation: name:	None 065	
Agency or organ	ization name:	DRM	<u>MS</u>					
HOURLY EQUI	PMENT CO	OSTShif	t basis: 1	per day				
Eavines	t Decemination							
-Scraper: -Dozer:	t Description		Cat D8	'G w/push-p Γ - 8SU	<u>ull</u>			
<u>Support Equipm</u> -Dump Area:	ent -Load Area	<u>a:</u>	NA Cat D8'	Т - 8SU				
Road Maintenan	ce –Motor Gra	ider:	CAT 14					
-Water Truck:			Water 7	<u> Fanker, 10,0</u>	00 Gal.			
Cost Breakdown	: Scraper V	Work Te	am Supp	ort Equipmo	ent Mair	ntenance Eq	uipment	<u> </u>
	<u>Scraper</u>	Dozer	<u>I</u>	Load Area	Dump Area	Motor Grade	-	<u>Water</u> Truck
%Utilization-machine:	100	100	1	NA	<u>25</u>	25	=	<u>25</u>
Ownership cost/hour:	\$281.32	\$173.3	<u>32</u> <u>1</u>	<u>NA</u>	\$173.32	\$129.8	31	<u>\$111.67</u>
Operating cost/hour:	<u>\$319.35</u>	\$109.7	<u>71 </u>	<u>NA</u>	<u>\$27.43</u>	\$22.28	<u>3</u>	<u>\$29.61</u>
<u>% Utilization-ripper:</u>	<u>NA</u>	<u>NA</u>	_	<u>NA</u>	<u>NA</u>	<u>NA</u>		<u>NA</u>
Ripper own. cost/hour:	<u>NA</u>	\$0.00	1	<u>NA</u>	\$0.00	\$0.00		<u>\$0.00</u>
Ripper op. cost/hour:	<u>NA</u>	\$0.00		<u>NA</u>	<u>\$0.00</u>	\$0.00		<u>\$0.00</u>
Operator cost/hour:	\$30.90	\$38.59		<u>NA</u>	\$38.59	\$27.70		\$21.12
<u>Unit Subtotals:</u>	<u>\$631.57</u>	\$321.6		<u>NA</u>	\$239.33	<u>\$179.8</u>	<u>35</u>	\$162.40
Number of Units:	2	1	<u>C</u>	_	1	1		1
Group Subtotals:	Work:	\$1,584	1.76 S	Support:	\$239.33	Maint	<u>:</u>	<u>\$342.25</u>
Total work team of MATERIAL QU		66.34						
<u>Initial volume:</u>	<u>7,743</u>		<u>CCY</u>	Swell factor	r: 1.12	<u>5</u>		
Loose volume:	<u>8,711</u>		LCY					
Source of estima	ated volume:		Division	of Reclama	tion, Mini	ng & Safety		

Source of estima	ted swell factor:	Cat Ha	<u>ndbook</u>		
HOURLY PROD	<u>DUCTION</u>				
Scraper Bo	owl (volume) Basis:				
Material weight:	2,550 lbs/LCY		Struck Volume:	24.00	<u>LCY</u>
Material	Earth - Dry packed		Heaped Volume:	34.00	LCY
description:			_		
Rated Payload:	81,600 pounds		<u>Average</u>	29.00	LCY
			Volume:		
<u>Payload</u>	32.00 LCY		<u>Adjusted</u>	<u> 29.00</u>	<u>LCY</u>
Capacity:			Capacity:		
Cycle Time:					
Scraper Loading	Time:		<u>1.00 Minutes</u>		

0.60 Minutes

Job Condition Correction: Site Altitude: 6800 feet

Maneuver and Spread Time:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	<u>(Ft)</u>	<u>(%)</u>	<u>(%)</u>	<u>(%)</u>	(fpm)	<u>(min)</u>
1	3753.00	-3.60	4.00	0.40	2965	1.45

Haul Time: <u>1.45</u> minutes

Return Route:

Seg #	Haul Distance (Ft)	<u>Grade</u> (%)	<u>Roll. Res</u> (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3753.00	3.60	4.00	7.60	1931	2.03

	Return Time:	2.03	minutes
Total Scraper team cycle time:		<u>5.08</u>	<u>minutes</u>
Adjusted for job conditions:		568.58	LCY/Hour
Selected Number of Scrapers:		<u>2</u>	Scraper(s)
Adjusted single scraper team (unit) hourly	production:	568.58	LCY/Hour

Adjusted multiple scraper team (fleet) hourly production: LCY/Hour <u>568.58</u> 685.04 <u>LCY/Hour</u> Unadjusted unit production/hour: Optimal Number of Scrapers per push dozer: **JOB TIME AND COST** Team(s) Total job time: <u>15.32</u> Fleet size: **Hours** <u>1</u> /LCY Total job cost: \$33,189 Unit cost: \$3.810

SCRAPER TEAM WORK

Task descripti	ion: Re	place Topsoi	il on Hau	ilroad D Lo	cation			
Peabody Sa Mine	age Creek	Permit A	Action:	BondRevie	ew]	Permit/Job /	#: <u>C</u>	C2009087
PROJECT ID	ENTIFICA	TION						
		State:	Colorado	ı	Abbr	eviation:	Non	e
		County:	Routt		Filen	ame:	066	
Agency or or	ganization n	ame: DRI	MS					
HOURLY EQ	UIPMENT	COSTShif	t basis: <u>1</u>	l per day				
Equipm	nent Descript	tion						
-Scraper:					ull			
				T - 8SU				
• • •	pment -Load	l Area:						
		or Grader:						
-Water Truck	•		Water 7	Γanker, 10,00	00 Gal.			
Cost Breakdo	wn: Scra	ner Work Te	am Supr	oort Equipme	ent Main	tenance Ea	uipme	ent
3000 22 000200		•				_	_	Water
	~ · · · · ·				Area			Truck
tion-machine:	100	100	1	NA	25	25		25
ip cost/hour:	\$281.32	2 \$173.3	32 N	NA	\$173.32	\$129.	81	\$111.67
g cost/hour:	\$319.35	5 \$109.7	71 N	NA	\$27.43	\$22.23	8	\$29.61
tion-ripper:	NA	NA	1	NA	NA	NA		NA
wn. cost/hour:	NA	\$0.00	1	NA	\$0.00	\$0.00		\$0.00
p. cost/hour:	NA	\$0.00	1	NA	\$0.00	\$0.00		\$0.00
cost/hour:	\$30.90	\$38.59	9 1	NA	\$38.59	\$27.70	6	\$21.12
totals:	\$631.57	7 \$321.0	52 N	NA	\$239.33	\$179.	85	\$162.40
of Units:	2	1	()	1	1		1
ubtotals:	Work:	\$1,584	4.76	Support:	\$239.33	Maint	:	\$342.25
of Units: ubtotals:	\$631.57 2 Work:	7 \$321.0 1 \$1,584	62 N	NA)	\$239.33 1	\$179.3 1	85	\$162.40 1
MATERIAL (<u>QUANTITI</u>	<u>ES</u>						
			CCV	Swell factor	: 1.125	Š.		
Initial volume	e: 3,452		CCY	Swell factor	. 1.122	,		
Initial volume Loose volume			LCY	Swell factor	1.123	<u>, </u>		
	e: 3,884	me·	LCY	of Reclama				
	Peabody Sa Mine PROJECT ID Task #: 06 Date: 12 User: R. Agency or or HOURLY EQ Equipm -Scraper: -Dozer: Support Equi -Dump Area: Road Mainter -Water Truck Cost Breakdo tion-machine: ip cost/hour: g cost/hour: tion-ripper: wn. cost/hour: p. cost/hour: totals: of Units: abtotals: Cotal work team	Peabody Sage Creek Mine PROJECT IDENTIFICA Task #: 066 Date: 12/19/2024 User: RAR Agency or organization nate HOURLY EQUIPMENT Equipment Descript -Scraper: -Dozer: Support Equipment -Load -Dump Area: Road Maintenance –Moto -Water Truck: Cost Breakdown: Scraper tion-machine: 100 ip cost/hour: \$281.32 g cost/hour: \$319.35 tion-ripper: NA wn. cost/hour: NA p. cost/hour: NA cost/hour: \$30.90 totals: \$631.52 of Units: 2 libtotals: Work:	Peabody Sage Creek Mine PROJECT IDENTIFICATION Task #: 066 State: Date: 12/19/2024 County: State: Date: Project Proj	Peabody Sage Creek Mine PROJECT IDENTIFICATION Task #: 066	Peabody Sage Creek Mine PROJECT IDENTIFICATION Task #: 066 State: Colorado Date: 12/19/2024 County: Routt User: RAR Agency or organization name: DRMS HOURLY EQUIPMENT COSTShift basis: 1 per day Equipment Description -Scraper: Cat 637G w/push-p -Dozer: Cat D8T - 8SU Support Equipment -Load Area: NA -Dump Area: Cat D8T - 8SU Road Maintenance -Motor Grader: CAT 14M -Water Truck: Water Tanker, 10,00 Cost Breakdown: Scraper Work Team Support Equipment Scraper Dozer Load Area tion-machine: 100 100 NA ip cost/hour: \$281.32 \$173.32 NA g cost/hour: \$319.35 \$109.71 NA tion-ripper: NA NA NA wn. cost/hour: NA \$0.00 NA p. cost/hour: NA \$0.00 NA cost/hour: \$30.90 \$38.59 NA totals: \$631.57 \$321.62 NA of Units: 2 1 0 abtotals: Work: \$1,584.76 Support:	Peabody Sage Creek Mine BondReview B	Peabody Sage Creek Permit Action: BondReview Permit/Jobs	Peabody Sage Creek Permit Action: BondReview Permit/Job#: Corporation Permit/Job#: Permit/Job#: Corporation Permit/Job#: Corporation Permit

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY Struck Volume: 24.00 LCY Material Earth - Dry packed Heaped Volume: 34.00 LCY description: Rated Payload: 81,600 pounds Average 29.00 LCY Volume:

Payload 32.00 LCY Adjusted **29.00** LCY Capacity: Capacity:

Cycle Time:

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

<u>Job Condition Correction:</u> Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg#	Haul Distance	Grade	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)	(%)	(%)	(%)	(fpm)	(min)
1	3560.00	-2.90	4.00	1.10	2952	1.41

Haul Time: 1.41 minutes

Return Route:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	3560.00	2.90	4.00	6.90	2240	1.71

Return Time: 1.71 minutes

Total Scraper team cycle time: 4.72 minutes

Adjusted for job conditions: 611.95 LCY/Hour

Selected Number of Scrapers:2Scraper(s)Adjusted single scraper team (unit) hourly production:611.95LCY/HourAdjusted multiple scraper team (fleet) hourly production:611.95LCY/Hour

Unadjusted unit production/hour: 737.29 LCY/Hour
Optimal Number of Scrapers per
push dozer:

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 6.35 Hours

Unit cost: \$3.540 /LCY Total job cost: \$13,748

BULLDOZER WORK

Task description	n: Replace Top CCU84,	psoil on CO	OV11, CCU31, C	CU47, CCU58, (CCU67,
Peabody Sag Mine	e Creek Perm	nit Action:	BondReview	Permit/Job	o#: <u>C2009087</u>
PROJECT IDE	NTIFICATION				
Task #: 068 Date: 12/1 User: RAI	9/2024 County:	Colorado Routt	0	Abbreviation: Filename:	None 068
Agency or orga	nization name: _I	ORMS			
HOURLY EQU	IPMENT COST				
Basic Machine:	Cat D10T - 10SU		_		
Horsepower:	574		<u> </u>		
Blade Type:	Semi-Universal		_		
Attachment:	3-shank ripper		_		
Shift Basis:	1 per day		_		
Data Source:	(CRG)		_		
Cost Breakdown	:				
			<u>Utilization %</u>		
Ownership Cost/Hour:	\$257.39		NA		
Operating Cost/Hour:	\$196.93		100		
Ripper own. Cost/Hour:	\$25.02		NA		
Ripper op. Cost/Hour:	\$0.00		0		
Operator Cost/Hour:	\$38.59		NA		
Total unit Cost/Hour:	\$517.93				
Total Fleet Cost/Hour:	\$517.93				

MATERIAL QUANTITIES

Initial Volume: Swell factor:	2,258		
Loose			
volume:	2,540 LCY	Y 	
Source of estimates volume: Source of estimates factor:		Division Cat Hand	of Reclamation, Mining & Safety Ibook
HOURLY PRO	DUCTION	[
Average push of Unadjusted how production:	_	200 feet 946.0 LCY	//hr
Materials considescription:	stency	Compa	cted fill or embankment 0.9
Average push gradient: Average site altitude:	6,800	0 feet	_
Material weigh	t: <u>2,550</u>	0 lbs/LCY	
Weight description:	Earth	n - Dry pack	red
Job Condition C	orrection Fa	ctor So	ource
Operator Skill:	offection ra	0.750	(AVG.)
Material consis	tency:	0.900	(CAT HB))
Dozing method	-	1.000	(GEN.)
Visibility:	· =	1.000	(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 Weigh	nt:	0.902	(CAT HB)
Blade type:	_	1.000	(PAT)
Net correction:	_	0.4043	
Adjusted unit	38	2.47 LCY/h	r

Adjusted fleet production: 382.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.354/LCY

Total job time: **6.64** Hours

Total job cost: \$3,440

BULLDOZER WORK

Task description	n: Repl	Replace Topsoil on Upper Sump				
Peabody Sag e: Mine	ge Creek	Permit	Action:	BondReview	Permit/Job	p#: <u>C2009087</u>
PROJECT IDE	ENTIFICAT	<u>ION</u>				
Task #:069		State:	Colorad	0	Abbreviation:	None
Date: 12/ User: RA		County:	Routt		Filename:	069
Agency or orga	anization nan	ne: <u>DF</u>	RMS			
HOURLY EQU	JIPMENT C	OST				
Basic Machine:	Cat D10T	- 10SU				
Horsepower:	574	-		_		
Blade Type:	Semi-Univ	versal		_		
Attachment:	3-shank ri	pper				
Shift Basis:	1 per day					
Data Source:	(CRG)			_		
Cost Breakdown	<u>ı</u> :					
				<u>Utilization %</u>		
Ownership Cost/Hour:	\$257.	39		NA		
Operating Cost/Hour:	\$196.	93		100		
Ripper own. Cost/Hour:	\$25.0	2		NA		
Ripper op. Cost/Hour:	\$0.00	1		0		
Operator Cost/Hour:	\$38.5	9		NA		
Total unit	\$517.	93				
Cost/Hour: Total Fleet Cost/Hour:	\$517.	93				

MATERIAL QUANTITIES

Initial Volume: Swell factor:	2,258		
Loose			
volume:	2,540 LCY	Y 	
Source of estimates volume: Source of estimates factor:		Division Cat Hand	of Reclamation, Mining & Safety lbook
HOURLY PRO	DUCTION	<u> </u>	
Average push of Unadjusted how production:	-	200 feet 946.0 LCY	//hr
Materials considescription:	stency	Compa	cted fill or embankment 0.9
Average push gradient: Average site altitude:	6,800	0 feet	_
Material weigh	t: <u>2,55</u> 0	0 lbs/LCY	
Weight description:	Eartl	n - Dry pack	ced
Job Condition C	orrection Fa	ctor So	purce
Operator Skill:	offection ra	0.750	(AVG.)
Material consis	tency:	0.900	(CAT HB))
Dozing method	-	1.000	(GEN.)
Visibility:	=	1.000	(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 Weigh	nt:	0.902	(CAT HB)
Blade type:		1.000	(PAT)
Net correction:	_	0.4043	
Adjusted unit	38	2.47 LCY/h	ır

Adjusted fleet production: 382.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.354/LCY

Total job time: **6.64** Hours

Total job cost: \$3,440

BULLDOZER WORK

Task descripti	on: Rej	Replace Topsoil on Lower Sump				
Peabody Sate: Mine	ige Creek	Permit .	Action:	BondReview	Permit/Job	p#: <u>C2009087</u>
PROJECT ID	ENTIFICA'	<u> FION</u>				
	0 /19/2024 AR	State: _ County: _	Colorado Routt	0	Abbreviation: Filename:	None 070
Agency or org	ganization na	ıme: DR	MS			
HOURLY EQ						
HOURLI EQ	OH WIEN I	COST				
Basic Machine:	-	Τ - 10SU		_		
Horsepower:	574			<u> </u>		
Blade Type:	Semi-Un			_		
Attachment: Shift Basis:	3-shank					
Data Source:	1 per day (CRG)	!		_		
Data Source.	(CKG)			_		
Cost Breakdow	'n.					
Cost Broakes W	<u></u> .			Utilization %		
Ownership	\$25	7.20				
Cost/Hour:	\$25	7.39		NA		
Operating	\$10	6.93		100		
Cost/Hour:	φ1 <i>9</i> 0	0.93		100		
Ripper own.	\$25	02		NA		
Cost/Hour:	Ψ25	.02		1171		
Ripper op.	\$0.0)()		0		
Cost/Hour:						
Operator Cost/Hour:	\$38	.59		NA		
Total unit	\$517	7.93		2.14.2		
Cost/Hour: Total Fleet	\$51	7 03				
	ф31.	1.33				
Cost/Hour:						

MATERIAL QUANTITIES

Initial Volume: Swell factor:	1,613 1.125		
Loose volume:	1,815 LCY	7	
Source of estim volume: Source of estim factor:		Division of Cat Handb	of Reclamation, Mining & Safety
HOURLY PRO	<u>DUCTION</u>		
Average push of Unadjusted hou production:		200 feet 946.0 LCY/	hr
Materials consi description:	stency	Compac	ted fill or embankment 0.9
Average push gradient: Average site altitude:	6,800) feet	-
Material weigh	t: 2,550	lbs/LCY	
Weight description:	Earth	- Dry packe	ed
Job Condition C	orrection Fac	ctor Sou	ırce
Operator Skill:		0.750	(AVG.)
Material consis	tency:	0.900	(CAT HB))
Dozing method		1.000	(GEN.)
Visibility:	_	1.000	(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 Weigh	nt:	0.902	(CAT HB)
Blade type:	_	1.000	(PAT)
Net correction:	_	0.4043	
Adjusted unit	382	2.47 LCY/hr	

Adjusted fleet production: 382.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.354/LCY

Total job time: 4.74 Hours

Total job cost: \$2,457

SAFEGUARDING UNDERGROUND OPENINGS

Peabo Mine	ody Sage Creek	Pern	nit Action:	BondReview	Perm	nit/Job#:	C2009087
DDAI	ect inexete	ICATION			_		
PROJ.	ECT IDENTIF	ICATION					
Task	080	State:	Colorado	Abbrevia	ation:	None	
Task #:	080	State:	Colorado	Abbrevia	ation:	None	
		State: County:	Colorado Routt	Abbrevia ———— Filename	-	None 080	

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Mine Portal Openings	20'X11' (4)	Adit closure - bulkhead seal (per opening)	4.00	EA	\$5,246.60	\$20,986.40
Backfill Portal Openings	20'X11' (4)	Adit closure - backfilling (per opening)	4.00	EA	\$3,649.41	\$14,597.64
Seal Portal Dewatering Well	3'X90'	Shaft closure - backfilling, by hand	30.00	CY	\$75.00	\$2,250.00
Portal Dewatering Well Bottom Plug	3'X90'	Shaft closure - monolithic plug (per opening)	1.00	EA	\$20,646.59	\$20,646.59

Job Hours: 32.00 Total Cost:	\$58,480.63
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BOREHOLE SEALING WORK

Task description:	Drillhole/Monitoring Well Sealing	

Peabody Sage Creek Permit Action:

Site: **Mine** BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task 090 State: Colorado Abbreviation: None

User: RAR

Agency or organization name: DRMS

UNIT COSTS

Borehole Descriptio	Sealing/Item Method	Diamet	Lengt	Quanti	Uni	Unit	Total
n		er	h	ty	t	Cost	Cost
Seal Overburden Wells	Portland cement grout (Bag, material cost only94 lb. bag)	6"	5033	220.00	bag	\$22.0 0	\$4,840.00
Seal Coal Wells	Portland cement grout (Bag, material cost only94 lb. bag)	6"	3723	162.00	bag	\$22.0 0	\$3,564.00
Seal Underburde n Wells	Portland cement grout (Bag, material cost only94 lb. bag)	6"	3973	173.00	bag	\$22.0 0	\$3,806.00
Seal Exploration Wells	Portland cement grout (Bag, material cost only94 lb. bag)	6"	8600	375.00	bag	\$22.0 0	\$8,250.00
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6"	23'	23.00	LF	\$3.23	\$74.29
Borehole Plug	PVC plug - 6 in. diameter borehole	6"	NA	23.00	EA	\$65.1 9	\$1,499.40
Borehole Marker	Borehole location/identifica tion marker (EA,	NA	NA	23.00	EA	\$46.0 0	\$1,058.00

	material cost only)						
Seal Misc Borehole/ Well	Portland cement grout (Bag, material cost only94 lb. bag)	12"	1000	175.00	bag	\$22.0 0	\$3,850.00
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	12"	4'	4.00	LF	\$3.23	\$12.92
Borehole Plug	PVC plug - 12 in. diameter borehole	12"	NA	4.00	EA	\$167. 62	\$670.50
Borehole Marker	Borehole location/identifica tion marker (EA, material cost only)	NA	NA	4.00	EA	\$46.0	\$184.00
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	233.00	EA	\$574. 01	\$133,744. 33
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	233.00	EA	\$55.2 2	\$12,866.2 6
Seal Alluvial/Sp oil Wells	Bentonite seal - 6 in. (labor, equip, materials)	6"	222.2	7.00	LF	\$11.2 5	\$78.77
Seal and Abandon 14" Water Pump Borehole (MR20)	Portland cement grout (Bag, material cost only94 lb. bag)	14"	45	6.00	bag	\$22.0	\$132.00
Seal and Abandon 5.625" pump control hole	Portland cement grout (Bag, material cost only94 lb. bag)	5.625"	45	2.00	bag	\$22.0	\$44.00
Bottom Plug (MR20)	PVC plug - 12 in. diameter borehole	14"	NA	1.00	EA	\$167. 62	\$167.62
Bottom Plug (MR20)	PVC plug - 6 in. diameter borehole	5.625"	NA	1.00	EA	\$65.1 9	\$65.19
Borehole Marker (MR20)	Borehole location/identifica tion marker (EA, material cost only)	NA	NA	2.00	EA	\$46.0	\$92.00

Cut Casings	Exposed casing	14 &	NA	5.28	LF	\$3.23	\$17.05
(MR20)	removal -	5.625"					
	Calculate						
	Circumference in						
	Linear Feet						

Job Hours:	233.00	Total Cost:	\$175,016.00
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REVEGETATION WORK

-	Γask description:	Reseed North Faci	lities Areas	8			
Site:	Peabody Sage Cree Mine	k Permit Action		dReview	Permi	t/Job#	: <u>C2009087</u>
<u>P</u> :	ROJECT IDENTIFI	<u>CATION</u>					
]	Task #: 100 Date: 12/19/2024 User: RAR		orado itt		Abbreviation Filename:	on: _ _	None 100
<u>F</u>	Agency or organizatio ERTILIZING Iaterials	n name: DRMS					
1	Description		Units / Acre	Unit	Cost / U	nit	Cost /Acre
	Composted manure I	ORMS Survey	500.00	pound	\$0.43		\$213.90
					Total Fertilize Materia Cost/Ac	ls	\$213.90
olicat	ion						
	iption 1 OA	EANIC 20 01 12 22	4.450)				/Acre
<i>(</i> Ianui	re, tractor spreader (M	EANS 32 91 13.23 ²	1450)			\$77.	10

TILLING

Total Fertilizer Application Cost/Acre

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

\$77.10

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

JOB TIME AND COST

No. of Acres:	14.35	Cost /Acre:	\$991.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$991.99
*Selected Replanting Work Items:	FERTILIZING,	TILLING,SEEDI	
	NG		

Initial Job Cost:	\$14,235.06
Reseeding Job Cost:	\$2,847.01
Total Job Cost:	\$17,082
Job Hours:	7.20

REVEGETATION WORK

Task description:	Reseed South Facilities Areas
D. I. I. C C	D. V.A.C

Peabody Sage Creek Permit Action:

Site: Mine BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:	101	State:	Colorado	Abbreviation:	None	
Date:	12/19/2024	County:	Routt	Filename:	101	
Hear.	DAD			<u> </u>		

User: RAR

Agency or organization name: DRMS

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
Penstemon, Palmer	0.10	2.21	\$7.79

Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

JOB TIME AND COST

No. of Acres:	76.8	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99
ΨΩ 1 , 1D 1 , W 1 I	THE INCORP.	NING	

*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$53,836.03

Reseeding Job Cost: \$10,767.21

Total Job Cost: \$64,603

Job Hours: 38.40

REVEGETATION WORK

Task description:	Reseed Reclaimed Roads	

Peabody Sage Creek Permit Action:

Site: Mine BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #:102State:ColoradoAbbreviation:NoneDate:12/19/2024County:RouttFilename:102

User: RAR

Agency or organization name: DRMS

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre	
Arrowleaf Balsamroot	0.50	0.62	\$49.76	
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92	
Big Bluegrass - Sherman	0.10	2.07	\$1.59	
Bitterbrush, Antelope	1.00	0.31	\$56.51	
Aster, Engleman's	0.10	0.48	\$22.69	
Mountain Brome - Bromar	1.00	1.61	\$6.02	
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69	
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40	
Rocky Mountain Fescue	0.10	1.61	\$1.08	
Slender Wheatgrass - Native	1.00	3.65	\$7.06	
Coneflower, Prairie	1.00	27.18	\$35.61	
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15	
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07	
Western Wheatgrass - Native	1.00	2.53	\$9.01	
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65	
Sagebrush, Mountain or Big	0.25	13.20	\$20.67	
Flax, Lewis Blue	0.50	3.32	\$21.15	
Sagebrush, Wyoming Big	0.25	14.78	\$19.70	
Snowberry, Mountain	0.50	0.86	\$29.53	
Penstemon, Palmer	0.10	2.21	\$7.79	

Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

NURSERY STOCK PLANTING

Common Name	No / Acr e	Type and Size	Plantin g Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery St	ock Cos	t / Acre			\$0.00

JOB TIME AND COST

No. of Acres:	15.2	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99
*Selected Replanting Work Items:	TILLING SEE	DING	

Initial Job Cost: \$10,655.05

Reseeding Job Cost: \$2,131.01

Total Job Cost: \$12,786

Job Hours: 7.10

REVEGETATION WORK

Task description:			description: Reseed Drill Pads and Geotechnical Hole Locations				
Site:	Peabody Mine	y Sage Creek	Permit Action	n: BondReview	Permit/Job#:	9087	
PROJECT IDENTIFICATION							
	Task #:	103	State:	Colorado	Abbreviation:	None	
	Date:	12/19/2024	1 County:	Routt	Filename:	103	

User: RAR

Agency or organization name: DRMS

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
			\$
Totals Seed Mix			\$

JOB TIME AND COST

No. of Acres:	1.45	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99
*Calacted Doublestine Work House	TH LING SEEDING		

*Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: \$1,016.44

Reseeding Job Cost: \$203.29

Total Job Cost: \$1,220

Job Hours: 3.00

REVEGETATION WORK

Mine	y Sage Creek	Permit Acti	ion: BondReview	Permit/Job#:	C2009087
WHILE		<u> </u>	Bollakeview	1 CIIII (300 ii .	C2007007
PROTECT		ION			
KOJEC	<u> IDENTIFICAT</u>	ION			
Task #:	104	State:	Colorado	Abbrevia	ation: No
			Colorado Routt	Abbrevia Filename	

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Totals Seed Mix			\$ \$

JOB TIME AND COST

136.02	Cost /Acre:	\$583.38
0%	Cost /Acre*:	\$583.38
SEEDING		
	0%	0% Cost /Acre*:

Initial Job Cost: \$79,351.35
Reseeding Job Cost: \$0.00

Total Job Cost:	\$79,351
Job Hours:	68.01

REVEGETATION WORK

Peabod	y Sage Creek	Permit Act	ion:		
Mine			BondReview	Permit/Job#: C20	09087
<u>ROJECT</u>	IDENTIFICAT	<u>ION</u>			
			Colorado	Abbreviation:	None
PROJECT Task #: Date:	106 12/19/2024	ION State: County:	Colorado Routt	Abbreviation: Filename:	None 106

DRMS

SEEDING

Agency or organization name:

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
			\$
Totals Seed Mix			\$

JOB TIME AND COST

No. of Acres:	462.4	Cost /Acre:	\$583.38
Estimated Failure Rate:	0%	Cost /Acre*:	\$583.38
*C-14-1D14' W1-14	CEEDING		

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$269,754.91

Reseeding Job Cost: \$0.00

Total Job Cost: \$269,755

Job Hours: \$231.20

DEMOLITION WORK

Т	Task description:	Demolis	h and Remove	e North Facilit	ies and Materia	ls	
	Peabody Sage Cre Mine	ek Pe	ermit Action:	BondReview	Permit/J	Job#:	C2009087
PROJE	CT IDENTIFICAT	<u> FION</u>					
Task #:	: 110	State:	Colorado		Abbreviation:	None	e
Date:	12/19/2024	County:	Routt		Filename:	110	
User:	RAR						

DRMS

<u>UNIT COSTS</u> <u>Location adjustment: 98.20 %</u>

Agency or organization name:

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Security Building	12'X40'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,168.32
Bathhouse	42'X40'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.24	\$4,089.12
Bathhouse Floor	42'X40'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,295.28
Bathhouse Footers	84'X76'	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft Max. 10,000 ft. haul	160.00	LF	\$6.94	\$1,110.27
Temporary Bathhouse	24'X70'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.24	\$4,089.12

Temporary Bathhouse Floor	24'X70'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,295.28
Diesel Tank Removal	20,000g	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Diesel Tank Sludge Removal	5% of 20,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Diesel Tank Dry Ice	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Unleaded Fuel Tank Removal	2,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Unleaded Fuel Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$2.11	\$63.30
Used Oil Tank Removal	2,000g(3)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	3.00	EA	\$760.00	\$2,280.00
Used Oil Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	3.00	EA	\$259.50	\$778.50
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	90.00	LB	\$2.11	\$189.90
Mag Cholide Tank Removal	2,500g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00

North Facilities Tank Pads	120 CY	Slab on grade, concrete, demolition only -	120.00	CY	\$142.00	\$17,040.00
North Facilites Septic Tank	1,000G	Mesh reinforcing Comprehensive storage tank removal, non- leaking - 3,000 to	1.00	EA	\$3,550.90	\$3,550.90
North Facilities Dosing Tank	1,000G	5,000 gal. tank Comprehensive storage tank removal, non- leaking - 3,000 to 5,000 gal. tank	1.00	EA	\$3,550.90	\$3,550.90
Vehicle Maintenance Shop	140'X80'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	224,000.00	CF	\$0.33	\$73,606.40
Vehicle Maintenance Shop Floor	140'X80'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	11,200.00	SF	\$1.16	\$12,952.80
Parts Building	110'X70'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	154,000.00	CF	\$0.33	\$50,604.40
Parts Building Floor	110'X70'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	7,700.00	SF	\$1.16	\$8,905.05
Electrical Parts Building	30'X22'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	6,600.00	CF	\$0.24	\$1,606.44
Electrical Parts Building Floor	30'X22'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	660.00	SF	\$1.16	\$763.29
Lean-To Building	100'X12'X10'	Bldg. (SN) demo./on-site disposal in	1,200.00	CF	\$0.24	\$292.08

Office Building	60'X50'X10'	existing pit or cut - Max. 10,000 ft. haul Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	30,000.00	CF	\$0.24	\$7,302.00
Office Building Floor	60'X50'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	3,000.00	SF	\$1.16	\$3,469.50
Engineering Trailer	55'X10'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	5,500.00	CF	\$0.24	\$1,338.70
Engineering Trailer Floor	55'X10'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	550.00	SF	\$1.16	\$636.08
Welding Shop	90'X56'X15'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.33	\$24,842.16
Welding Shop Floor	90'X56'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.16	\$5,828.76
PM Shop	120'X42'X15'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.33	\$24,842.16
PM Shop Floor	120'X42'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.16	\$5,828.76
Lube Storage Building	44'X18'X10'	Bldg. (SN) demo./on-site disposal in	7,920.00	CF	\$0.24	\$1,927.73

		existing pit or cut				
Lube Storage Building Floor	44'X18'	- Max. 10,000 ft. haul Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	792.00	SF	\$1.16	\$915.95
Wadge Pond 002 Pump Facility	20'X10'X8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	1,600.00	CF	\$0.24	\$389.44
Wadge Pond 002 Pump Facility Pad	20'X10'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	200.00	SF	\$2.31	\$462.62
Wadge Pond 002 Pump Facility Precast Blocks	20'X20'	Wall, block, demolition only, 12 in. thick - No reinforcing	400.00	SF	\$1.33	\$532.00
Electrical Substation Pads	12'X30'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	360.00	SF	\$1.16	\$416.34
North Facilites Propane Tanks	1,000g (5)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	5.00	EA	\$760.00	\$3,800.00
North Facilites Propane Tank Saddles	4'X8'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	160.00	SF	\$4.52	\$723.28
Remove Fencing	20,000LF	Fencing, barbed wire, - 3 strand	20,000.00	LF	\$1.82	\$36,400.00
Remove Fencing	1100LF	Fencing, chain link, including posts and fabric - to 6 ft. high	1,100.00	LF	\$3.02	\$3,322.00
Remove Powerlines	5 Miles	Utility Poles, Wood 35' - 45' high (each pole)	26.00	EA	\$325.00	\$8,450.00
Culvert 52A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	40.00	LF	\$13.98	\$559.19

Culvert SC-23	24"	Pipe, corrugated metal (CMP) - 24	20.00	LF	\$10.60	\$211.90
Culvert 64A	24"	in. diameter pipe Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$10.60	\$423.80
Culvert 53A	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	40.00	LF	\$5.91	\$236.34
Culvert 54A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 55A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 13A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$8.10	\$485.83
Culvert 59A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 9A	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	80.00	LF	\$24.52	\$1,961.81
Culvert 12A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	60.00	LF	\$13.98	\$838.78
Culvert A8	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 31A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$8.10	\$485.83
Pond 002 Valve Building (MR17)	20'X12'X10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 10,000 ft. haul	2,400.00	CF	\$0.24	\$584.16
Pond 002 Valve Building floor (MR17)	20'X12'X6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	240.00	SF	\$1.16	\$277.56
Pond 002 Valve Building Foundation	8'X10"	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	64.00	LF	\$4.63	\$296.07

Total Cost
Subtotal (adjusted for
Job Hours: 134.00 (unadjusted): \$333,087.66 location): \$327,092.08

DEMOLITION WORK

	Peabody Sage Creek	Permit Action:				
Site:	Mine		BondReview	Permit/Job#:	C2009087	

Demolish and Remove South Facilites and Structures

PROJECT IDENTIFICATION

Task description:

Task #:111State:ColoradoAbbreviation:NoneDate:3/25/2025County:RouttFilename:111

User: RAR

Agency or organization name: DRMS

UNIT COSTS Location adjustment: 98.20 %

Structure or Item Descriptio n	Dimensions	Demolition Menu Selection	Quantity	Uni t	Unit Cost	Total Cost
Million Gallon Water Tank	85'dX24'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	133,600.0	CF	\$0.33	\$43,900.96
Million Gallon Water Tank Pad	85'dX1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	5,682.00	SF	\$2.31	\$13,143.03
Milllon Gallon Water Tank Footer	85'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	85.00	LF	\$4.63	\$393.22
Remove 20.000g Diesel Tank	20,000	Haul tank to certified salvage dump - 9,000 to	1.00	EA	\$1,050.0 0	\$1,050.00

		12,000 gal.				
Remove 20,000g Diesel Tank Sludge	5% of 20,000g	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$432.00	\$432.00
Dry Ice for Inert Transport 20,000g Diesel Tank	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Remove 10,000g Diesel Tanks	10,000g(2)	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.0 0	\$2,100.00
Remove 10,000g Diesel Tank Sludge	5% of 10,000g(2)	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	2.00	EA	\$432.00	\$864.00
Dry Ice for Inert Transport 10,000g Diesel Tanks	10,000g(2)	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Remove 5,000g Diesel Tank	5,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Remove 5,000g Diesel Tank Sludge	5% of 5,000	Remove sludge, water, and rem. product from tank -	1.00	EA	\$259.50	\$259.50

		3,000 to				
		5,000 to 5,000 gal.				
Dry Ice for Inert Transport 5,000g Diesel Tank	5,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	75.00	LB	\$2.11	\$158.25
Remove 2,000g Unleaded Fuel Tank	2,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Remove 2,000g Unleaded Tank Sludge	5% of 2,000	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Dry Ice for Inert Transport 2,000g Unleaded Tank	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$2.11	\$63.30
Remove 2,000 Oil Tanks	2,000g (6)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	6.00	EA	\$760.00	\$4,560.00
Remove 2,000g Oil Tank Sludge	5% of 2,000g(6)	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	6.00	EA	\$259.50	\$1,557.00
Dry Ice for Inert Transport 2,000g Oil Tank	2,000g(6)	Insert dry ice (CO2) into tank to produce inert gas -	180.00	LB	\$2.11	\$379.80

		1.5 lbs./100				
Remove Mag Chloride Tanks	2,500g(2)	gal. Haul tank to certified salvage dump - 3,000 to 5,000 gal.	2.00	EA	\$760.00	\$1,520.00
Remove Propane Tank	20,000g	tank Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.0 0	\$1,050.00
Remove Propane Tank Saddles	8'X4'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	64.00	SF	\$4.52	\$289.31
Fuel Storage and Oil Storage Tank Pads	120 CY	Slab on grade, concrete, demolition only - Mesh reinforcing	120.00	CY	\$142.00	\$17,040.00
Portal Entry Fan Housing	30'X30'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.32	\$5,756.40
Pad Fan Housing	30'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.32	\$5,756.40
Pad Fan Pad	31'X70'X2'	Demo. and on-site disposal in existing pit, 12 in. thick -	2,170.00	SF	\$2.27	\$4,916.14

		Max. 50 ft.				
Pad Fan Footers	7'X7'X11'	push Demo. and on-site disposal in excavated	92.00	LF	\$14.21	\$1,307.26
Pad Fan Motor	10'X10'	pit, 2.0 ft. x 3 ft Max. 50 ft. push Bldg. (SN) demo./on- site disposal in existing pit or cut -	1,000.00	CF	\$0.22	\$215.60
Electrical Substation	160'X160'	Max. 50 ft. push Demo. and on-site	25,600.00	SF	\$1.54	\$39,475.20
Pad		disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul				
Electrical Substation Fencing	600 LF	Fencing, chain link, including posts and fabric - to 6 ft. high	600.00	LF	\$3.02	\$1,812.00
Utility Building	30'X40'X12'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	14,400.00	CF	\$0.24	\$3,504.96
Utility Building Floor	30'X40'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	1,200.00	SF	\$1.54	\$1,850.40
Compresso r Building	140'X40'X16'	Bldg. (MN) demo./on- site disposal in existing pit or cut -	89,600.00	CF	\$0.33	\$29,442.56

		Max. 10,000				
Compresso r Building	140'X40'	ft. haul Demo. and on-site	5,600.00	SF	\$1.54	\$8,635.20
Floor		disposal in existing pit, 8 in. thick - Max. 10,000				
Waste Handling and Recycle Area	250'X8'X6"	ft. haul Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	2,000.00	SF	\$3.34	\$6,677.80
Waste Handling and Recycle Area Pad	100'X150'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	15,000.00	SF	\$1.16	\$17,347.50
Waste Handling and Recycle Area Roof	50'X150'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	7,500.00	CF	\$0.24	\$1,825.50
Portal Conveyor	100LF	OBSOLETE -Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	100.00	LF	\$17.60	\$1,760.00
Transfer Conveyor	700LF	OBSOLETE -Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	700.00	LF	\$17.60	\$12,320.00
Radial Staker Conveyor	150LF	OBSOLETE -Conveyor, elevated, including supports - 5	150.00	LF	\$44.51	\$6,676.35

		ft. W x 6 ft.				
		H housing				
Temporary	67 CY	Slab on	67.00	CY	\$104.00	\$6,968.00
Conveyor		grade,				, -,-
Supports		concrete,				
		demolition				
		only - No				
		reinforcing				
Mine Portal	2 Each	Bldg. (SN)	10.00	CF	\$0.22	\$2.16
Heaters		demo./on-			7 5 1	,
(Bury in		site disposal				
Pit)		in existing				
/		pit or cut -				
		Max. 50 ft.				
		push				
Rock Dust	1131 SF	Bldg. (MN)	1,131.00	CF	\$0.33	\$371.65
Tanks (2)	1131 31	demo./on-	1,151.00		Ψ0.55	Ψ5/1.05
1 um (2)		site disposal				
		in existing				
		pit or cut -				
		Max. 10,000				
		ft. haul				
Rock Dust	22 CY	Slab on	22.00	CY	\$187.50	\$4,125.00
Tank Pads	22 01	grade,	22.00		φ107.20	ψ :,125:00
(2)		concrete,				
(2)		demolition				
		only - Rod				
		reinforcing				
Electrical	30'X30'	Bldg. (SN)	900.00	CF	\$0.24	\$219.06
Metering	001200	demo./on-	7 0 0.00		Ψ σ ι Ξ ι	Ψ=13.00
Station		site disposal				
		in existing				
		pit or cut -				
		Max. 10,000				
		ft. haul				
Electrical	30'X30'	Demo. and	900.00	SF	\$1.16	\$1,040.85
Metering		on-site				, ,= ==================================
Station Pad		disposal in				
		existing pit,				
		6 in. thick -				
		Max. 10,000				
		ft. haul				
Portal	36.5'X36'	Bldg. (SN)	10.00	CF	\$0.22	\$2.16
Pump		demo./on-				
Station		site disposal				
(Buried in		in existing				
Pit)		pit or cut -				
,		Max. 50 ft.				
		push				
	<u> </u>	Pusii	1			

Covered Storage Building	150'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	90,000.00	CF	\$0.33	\$29,574.00
Covered Storage Pylons	2'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	160.00	LF	\$4.63	\$740.18
Covered Storage Building	200'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	120,000.0	CF	\$0.33	\$39,432.00
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	180.00	LF	\$4.63	\$832.70
Covered Storage Buildings (2)	200'X50'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	400,000.0	CF	\$0.33	\$131,440.0 0
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	360.00	LF	\$4.63	\$1,665.40
South Facilities Powerlines	9100LF	Utility Poles, Wood 35' - 45' high (each pole)	10.00	EA	\$325.00	\$3,250.00

Powder Magazines (2)	16'X12'X10'(2)	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,840.00	CF	\$0.24	\$934.66
Powder Magazine Fence	450 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	450.00	LF	\$3.53	\$1,588.50
Culvert 15A	54"(2)	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	120.00	LF	\$33.06	\$3,967.51
Culvert SC-20	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	60.00	LF	\$10.60	\$635.71
Culvert SC-19	54"	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	90.00	LF	\$33.06	\$2,975.63
Culvert SC-17	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$16.96	\$1,017.62
Culvert SC-9 (Buried in Pit)	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	1.00	LF	\$16.96	\$16.96
Culvert SC-24 (Buried in Pit)	6"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	1.00	LF	\$4.51	\$4.51

Culvert SC-22	36"	Pipe, corrugated metal (CMP) - 36	60.00	LF	\$16.96	\$1,017.62
Culvert SC-21	24"	in. diameter pipe Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$10.60	\$423.80
Culvert SC-13	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert SC-18	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	20.00	LF	\$10.60	\$211.90
Culvert SC-25	8"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	10.00	LF	\$4.51	\$45.07
Culvert SC-16	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	100.00	LF	\$24.52	\$2,452.26
Culvert SC-10	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	240.00	LF	\$16.96	\$4,070.47
Culvert SC-15	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$16.96	\$1,017.62

Culvert SC-11	18"	Pipe, corrugated metal (CMP) - 18 in. diameter	80.00	LF	\$8.10	\$647.78
Culvert SC-12	18"	pipe Pipe, corrugated metal (CMP) - 18 in. diameter	40.00	LF	\$8.10	\$323.89
Culvert SC-14	48"(2)	pipe Pipe, corrugated metal (CMP) - 48 in. diameter pipe	160.00	LF	\$24.52	\$3,923.62
Pumphouse Pad (MR20)	6'X'6X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	36.00	SF	\$2.31	\$83.27
Pumphouse Building (MR20)	4'X4'X8'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	128.00	CF	\$0.24	\$30.23
Remove Culvert SC-27	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	25.00	LF	\$10.60	\$264.88
Demolish and Remove Microwave Tower Foundation	8'x8'x8'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	64.00	SF	\$1.54	\$98.69
Demolish and Remove	10'x25'	Bldg. (SN) demo./on- site disposal in existing	250.00	CF	\$0.24	\$60.85

Microwave		pit or cut -				
Tower		Max. 10,000				
		ft. haul				
Demo	30x50	Cat D8T -	0.50	EA	\$321.62	\$160.81
temporary		8SU				
tent MR32						

Total Cost (adjusted

Job Subtotal for

Hours: 190.00 (unadjusted): \$487,046.05 location): \$478,279.22

EQUIPMENT MOBILIZATION/DEMOBILIZATION

,	Task desc	eription: M	lobilize/Der	nobilize Eq	uipment from	Hayden	
ite:	Peabod Mine	ly Sage Creek	Permi	t Action:	BondReview	Permit/Job	#: <u>C2009087</u>
<u>P</u>	ROJEC	Γ IDENTIFICA	ATION				
	Task #:	120	State:	Colorado		Abbreviation:	None
	Date:	3/25/2025	County:	Routt		Filename:	120
	User:	RAR					
<u>E</u>	QUIPM I Shift t	ENT TRANSPO	ORT RIG	<u>COST</u>		1 -	per day
		ata Source:					RG Data
			.: 0	ENEDIGO			
	Truck	Tractor Descrip			N-HIGHWAY 400 HP (2ND H	TRUCK TRACTO (ALF, 2006)	JK, 6X4, DIESEL
	Truck 7	Гrailer Descripti	on: G	ENERIC FO	OLDING GOOS	ENECK, DROP	DECK
			F	OHIPMENT	TRAILER (25	T 50T AND 100	T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner	Haul Rig	Fleet	Haul Trip	Return	DOT
Description	Unit	ship	Cost/hr/unit	Size	Cost/hr/	Trip	Permit
_	(TONS)	Cost/hr/			fleet	Cost/hr/	Cost/ fleet
		unit				fleet	
Cat D10T -	84.53	\$257.39	\$125.64	6	\$2,298.18	\$753.84	\$1,500.00
10SU							
Cat 637G	59.59	\$281.32	\$125.64	4	\$1,627.84	\$502.56	\$1,000.00
w/push-pull							
CAT 972H	28.00	\$62.43	\$122.78	1	\$185.21	\$122.78	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	2	\$383.56	\$245.56	\$500.00
Cat D9T - 9SU	60.01	\$253.16	\$125.64	2	\$757.60	\$251.28	\$500.00
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Cat 772	36.80	\$116.97	\$122.78	1	\$239.75	\$122.78	\$250.00
SCHRAMM	35.00	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
T450WS							
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor							
Water Tanker,	41.10	\$111.67	\$122.78	1	\$234.45	\$122.78	\$250.00
10,000 Gal.							
Cat 324D L	27.33	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
9'-8" Stick							
Cat 770D	37.54	\$116.19	\$122.78	8	\$1,911.76	\$982.24	\$2,000.00
CAT 14M	23.57	\$129.81	\$59.44	2	\$378.50	\$118.88	\$500.00

Subtotals: \$9,221.37 \$3,650.48 \$7,750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
_	unit		Cost/hr/ fleet	Cost/hr/ fleet
Generic 10-12 cy, 6x4	\$108.12	6	\$648.72	\$648.72
Flatbed Truck, 4x2, 15K	\$42.24	1	\$42.24	\$42.24
GVW				
Fuel Tanker, 6x4, 210 HP	\$53.90	1	\$53.90	\$53.90
Lube Truck, 6x4, 250 HP	\$53.90	1	\$53.90	\$53.90

Subtotals: \$798.76 \$798.76

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$532.51

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job time:	3.33	Hours
Total job cost:	\$43,056	

REVEGETATION WORK

Permit Act	·				
		nd Review	Permit/Job#	: <u>C20090</u>)87
<u>'ION</u>					
State:	Colorado)	Abbrev	viation:	None
County:	Routt		Filenar	ne:	126
ne: <u>D</u>	PRMS				
		1			
	Units / Acre	Unit	Cost / Unit	Cost /Ac	ere
Herbicide - 2,4D @ 1.0 pt/ac			\$4.13	\$619.04	
Cost/Acre				\$619.04	
				Cost /Ac	ere
c area, nox. [D	MG]			\$199.01	
n Cost/Acre				\$199.01	
17 1		Cost /Acres	\$818	2.05	
			·		
	LCHING	2000/11010	ψ010		
,					
	County:	State: Colorado Routt	State:	State: Colorado Abbreve Filenar	State:

0.00

Job Hours:

SITE MAINTENANCE

	Peabody Sage Ca Mine	reek Per	rmit Action:	Bond Review	Permit/.	Job#:	C2009087
ROJEC	T IDENTIFIC	ATION					
Task #:	127	State:	Colorado	Abb	reviation:	None	e
Date:	3/25/2025	County:	Routt	Filer	name:	127	
Jser:	RAR						

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
NPDES Site	0.25	USER	2.50	EA	\$48.60	\$121.50
003 - Sampling		PROVIDED				
\$/Hr		ITEM				
NPDES Site	0.50	USER	5.00	EA	\$48.60	\$243.00
004 - Sampling		PROVIDED				
\$/Hr		ITEM				
NPDES Site	0.25	USER	2.50	EA	\$48.60	\$121.50
002 - Sampling		PROVIDED				
\$/Hr		ITEM				
GW Monitoring	2.00	USER	300.00	EA	\$57.40	\$17,220.00
Wells (15)		PROVIDED				
		ITEM				
Grassy Creek	0.50	USER	5.00	EA	\$48.60	\$243.00
Upstream -		PROVIDED				
Sampling \$/Hr		ITEM				
Grassy Creek	0.50	USER	5.00	EA	\$48.60	\$243.00
Downstream -		PROVIDED				
Sampling \$/Hr		ITEM				
Sampling	1.00	USER	7.00	EA	\$36.00	\$252.00
Containers - 7		PROVIDED				
Sets		ITEM				
Lab Analysis -	1.00	USER	200.00	EA	\$187.00	\$37,400.00
for 20		PROVIDED				
Sites/year		ITEM				

Job			
Hours:	60.00	Total Cost:	\$55,844.00

TRUCK/LOADER TEAM WORK

Task description: Clean Peabody Sage Creek Mine		Clean Sedimen	t from U	Upper and Lower S	umps	
		k Permit A	Action:	BondReview	Permit/Job#:	C2009087
PROJEC'	Γ IDENTIFI	<u>CATION</u>				
Task #:	128	State:	Color	ado	Abbreviation:	None
Date:	3/25/2025	County:	Routt		Filename:	128
User:	RAR					
	or organization	n name:	ORMS			
Agency (or organization	NT COST Sh		1 per day		
Agency of HOURLY	or organization FOUIPMENT Lipment Description	NT COST Sh	ift basis:			
Agency of HOURLY Eq Truck Lo	or organization	NT COST Sh	ift basis:	neric 10-12 cy, 6x4		
Agency of HOURLY Eq Truck Lo -Loader:	or organization TEQUIPMEN Luipment Desconder Team -T	NT COST Sheription Sheription	ift basis: Ger	neric 10-12 cy, 6x4 T 973D		
Agency of HOURLY Eq Truck Lo -Loader: Support	or organization Z EQUIPME uipment Desconder Team -T Equipment -L	NT COST Sheription Short Control of the control of	Ger CA' NA	neric 10-12 cy, 6x4 T 973D		
Agency of HOURLY Eq Truck Lo -Loader: Support	or organization Z EQUIPME uipment Desconder Team -T Equipment -L	NT COST Sheription Truck: oad Area:	ift basis: Ger	neric 10-12 cy, 6x4 T 973D		

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Track	Load Area	Dump Area	Motor	Water
		Loader		_	Grader	Truck
%Utilization- machine:	100	20	NA	NA	NA	NA
Ownership cost/hour:	\$22.44	\$120.46	NA	NA	NA	NA
Operating cost/hour:	\$60.44	\$17.59	NA	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$36.85	NA	NA	NA	NA
Unit Subtotals:	\$82.88	\$174.90	NA	NA	NA	NA
Number of Units:	6	1	0	0	0	0
Group Subtotals:	Work:	\$672.18	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$672.18

Initial volume:	5,485	CCY	Swell factor:	1.090	
Loose volume:	5,979	LCY			
Source of estimated	d volume:	Divisio	n of Reclamation	, Mining & Safety	
Source of estimated swell factor:		Cat Haı	ndbook		_
Material Purchase Cost:		\$0.00			_
Total Cost:		\$0.00			

HOURLY PRODUCTION

Truck Capacity:

Truck Payload	(weight)	Basis:
Material v	veight.	2 600

Material weight:	2,600	Pounds/LCY
Description:	Clay and gravel - Wet	
Rated Payload:	35,400	Pounds
Payload Capacity:	13.62	LCY

Truck Bed (volume) Basis:

Struck Volume:	10.00	LCY
Heaped Volume:	12.00	LCY
Average Volume:	11.00	LCY
Adjusted Volume:	12.00	LCY

Final Truck Volume Based on Number of Loader Passes:	9.22	LCY
That Truck volume based on Number of Loader Lasses.	7.44	LCI

Loading Tool Capacity

		Bucket Size Class:	NA
Rated Capacity:	4.190	LCY (heaped)	
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures	(100-120%) 1.100
Adjusted Capacity:	4.609	LCY	

Job Condition Corrections: Site Altitude (ft.): 6800 feet

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

Loading Tool Cycle Time:	Number of Loading Tool Passes Required to Fill Truck:	2	passes

Excavators	and	<u>Front</u>	Shove	ls:
<u> </u>				

Machine Cycle Time vs. Job Condition Rating: Selected Value within this Basic Rating:		NA				
		NA				
Track Load	ders – Materia	al Description:				
Cycle Time	Elements (mi	in.):				
Load:	0.050	Maneuver:	0.200	Dump:	0.055	
Wheel and maneuver)		rs - Unadjusted Bas	ic Loader Cycle	Time (load, dump,	0.305	minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.020	minutes
	Adjusted Loader Cycle Time:	0.325	minutes
	Net Load Time per Truck:	0.380	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.380	Minutes	Adjusted for site altitude:	0.380	Minutes
Truck Maneuver and Dump	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes
Time:					

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time
					_	(min)
1	36960.00	0.00	3.00	3.00	2824	13.189

Return Route:

Seg # Haul Distance Grade (%) Roll. Res Total Velocity Travel

Seg#	Haul Distance	Grade (%)	Roll. Res	Total	Velocity	Travel
	(Ft)		(%)	Res (%)	(fpm)	Time
						(min)
1	36960.00	0.00	3.00	3.00	2874	12.886

Return Time:12.886minutesTotal Truck Cycle Time:27.855minutes

Loading Tool unit

Production Truck Unit	628.50	LCY/Hour	Adjusted for job efficiency:	521.66	LCY/Hour
Production	19.86	LCY/Hour	Adjusted for job efficiency:	16.48	LCY/Hour
Optimal No. of Trucks:	32	Truck(s)	Selected Number of Trucks:	6	Truck(s)

Adjusted hourly truck team production:

Adjusted single truck/loader team production:

Adjusted multiple truck/loader team production:

98.88

LCY/Hour

Adjusted multiple truck/loader team production:

98.88

LCY/Hour

JOB TIME AND COST

Fleet size:	_1	Team(s)	Total job time:	60.46	Hours
Unit cost:	\$6.798	/LCY	Total job cost:	\$40,642	