



STATE OF  
COLORADO

Reilley - DNR, Robin <robin.reilley@state.co.us>

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## Lockhart Pit final review

1 message

**Reilley - DNR, Robin** <robin.reilley@state.co.us>

Tue, Aug 13, 2024 at 11:18 AM

To: Ben Langenfeld <benl@lewicki.biz>, Mitch Lockhart <lockhart567@gmail.com>, Robin Reilley - DNR <robin.reilley@state.co.us>

Good Morning Gentlemen,

Please find the final review of responses to DRMS preliminary adequacy questions. DRMS found adequate all responses received. DRMS has no further questions regarding the application. Also attached is the updated reclamation cost estimate for your records.

Let me know if you have any questions.

Thank you

Robin Reilley, M.S. GISP  
Environmental Protection Specialist II



**COLORADO**  
Division of Reclamation,  
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Department of Natural Resources

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### 2 attachments



**FinalADQ\_August2024.pdf**

190K



**CostEstimate\_LockhartPit\_2024.pdf**

239K



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

Mr. Ben Langenfeld  
Lewicki and Associates  
3375 W Powers Circle  
Littleton, Co 80123

13 August 2024

**Re: Lockhart Pit; Permit M2024017**  
**DRMS Review of Response to Preliminary Adequacy**

Dear Mr. Langenfeld

Please find the Divisions resolution of Lewicki and Associates responses to DRMS's preliminary adequacy questions. DRMS found the proposed application incomplete on 6 May 2024. The Division found the Kremmling All Seasons's Rental LLC, Lockhart Pit 112c application complete on 23 May 2025 having received the application on 25 April 2024. Preliminary Adequacy was provided on 28 June 2024 and responses to adequacy were received by DRMS on 30 July 2024. Notification and publication information was received on 22 July 2024.

Adequacy items were cured with the 30 July submittal and DRMS has no further questions regarding the permit application. The pre operation inspection is scheduled for 15 August 2024. Unless DRMS has any follow up questions resulting from the inspection the application will be proposed once the inspection is completed.

Please find the updated Reclamation Cost Estimate for your records.

I'm available to answer any questions that you may have.

Sincerely,

Robin Reilley M.S. GISP  
Environmental Protection Specialist II  
[Robin.reilley@state.co.us](mailto:Robin.reilley@state.co.us)



## COST SUMMARY WORK

Task description: Replace Topsoil 12 inches 98.2 acres

Site: Lockhart Pit

Permit Action: Lockhart Application

Permit/Job#: M2024017

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 6/20/2024

County: Grand

Filename: M017-000

User: RAR

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce 1000' of highwall to 3H:1V	DOZER	1	73.23	\$25,198
002	Replace 12 inches Topsoil 98.2 acres	DOZER	1	59.25	\$26,552
003	Revegetation	REVEGE	1	20.00	\$15,679
004	mob demob	MOBILIZE	1	0.26	\$581
<b><u>SUBTOTALS:</u></b>				<b>152.74</b>	<b>\$68,010</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 65.14  
Profit: 10.00

Total = \$1,374

Total = \$714

Total = \$5,164

Total = \$6,801

TOTAL O & P = \$14,053

CONTRACT AMOUNT (direct + O & P) = \$82,063

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$3,488

Reclamation management and/or administration: 5.00

\$4,103

CONTINGENCY: 3.00

Total = \$2,040

TOTAL INDIRECT COST = \$24,184

**TOTAL BOND AMOUNT (direct + indirect) = \$92,194**

**BULLDOZER WORK**Task description: Reduce 1000' of highwall to 3H:1VSite: Lockhart Pit Permit Action: Lockhart Application Permit/Job#: M2024017**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None  
 Date: 8/13/2024 County: Grand Filename: M017-001  
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT 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:**

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

Total unit Cost/Hour: \$344.10  
 Total Fleet Cost/Hour: **\$344.10**

**MATERIAL QUANTITIES**

Initial Volume: 12,000  
 Swell factor: 1.000  
 Loose volume: **12,000 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 80 feet  
 Unadjusted hourly production: 984.2 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 20 %  
 Average site altitude: 7,500 feet

Material weight: 4,050 lbs/LCYWeight description: Sand and clay - Compacted**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.200</u>	<u>(SLOT)</u>
Visibility:	<u>0.800</u>	<u>(POOR)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.568	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1665

Adjusted unit production: 163.87 LCY/hr

Adjusted fleet production: **163.87** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$2.100/LCY

Total job time: **73.23** Hours

Total job cost: **\$25,198**

## BULLDOZER WORK

Task description: Replace 12 inches Topsoil 98.2 acres

Site: Lockhart Pit

Permit Action: Lockhart Application

Permit/Job#: M2024017

### PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 6/20/2024

County: Grand

Filename: M017-002

User: RAR

Agency or organization name: DRMS

### HOURLY EQUIPMENT 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:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	<b>\$448.16</b>	

### MATERIAL QUANTITIES

Initial Volume: 16,133

Swell factor: 1.000

Loose volume: 16,133 LCY

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

Source of estimated swell  
factor: Cat Handbook

### HOURLY PRODUCTION

Average push distance: 50 feet

Unadjusted hourly  
production: 1,400.0 LCY/hr

Materials consistency  
description: Consolidated stockpile 1.0

Average push  
gradient: 10 %

Average site altitude: 7,500 feet

Material weight: 4,050 lbs/LCY

Weight description: Sand and clay - Compacted

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.568	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1945

Adjusted unit  
production: 272.30 LCY/hr

Adjusted fleet  
production: **272.3** LCY/hr

**JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.646/LCY

Total job time: **59.25** Hours

Total job cost: **\$26,552**

## REVEGETATION WORK

Task description: Revegetation

Site: Lockhart Pit

Permit Action: Lockhart Application

Permit/Job#: M2024017

### PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 6/20/2024

County: Grand

Filename: M017-003

User: RAR

Agency or organization name: DRMS

### FERTILIZING

#### **Materials**

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

#### **Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

### TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
<b>Total Tilling Cost/Acre</b>	<b>\$112.82</b>

### SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.00	9.71	\$19.50
Bottlebrush Squirreltail	0.50	2.20	\$8.11
Burnett, Small (or Little) - Delar	3.00	3.79	\$7.50
Galleta	4.00	14.60	\$89.40
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Western Wheatgrass - Native	4.00	10.10	\$24.00
Saltbush, Four Wing	0.50	0.69	\$6.25
<b>Totals Seed Mix</b>	<b>15.50</b>	<b>48.54</b>	<b>\$186.91</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$429.79	\$429.79
<b>Total Mulch Materials Cost/Acre</b>				<b>\$429.79</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
<b>Total Mulch Application Cost/Acre</b>	<b>\$257.62</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	10	Cost /Acre:	\$1,254.36
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,254.36
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		

Initial Job Cost:	<b>\$12,543.60</b>
Reseeding Job Cost:	<b>\$3,135.90</b>
Total Job Cost:	<b>\$15,679</b>
Job Hours:	<b>20.0</b>

**EQUIPMENT MOBILIZATION/DEMobilIZATION**Task description: **Mob demob**Site: **Lockhart Pit**Permit Action: **Lockhart Application**Permit/Job#: **M2024017****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **6/20/2024**County: **Grand**Filename: **M017-004**User: **RAR**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

**NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Subtotals:					<b>\$431.44</b>	<b>\$175.95</b>	<b>\$250.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Subtotals:			<b>\$0.00</b>	<b>\$0.00</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>KREMMLING, CO</u>	
Total one-way travel distance:	<u>3.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$580.99</u>
* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.07</u>	<u>0.07</u>
Return Time (Hours):	<u>0.07</u>	<u>0.07</u>
Loading Time (Hours):	<u>0.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.00</u>	<u>NA</u>
Subtotals:	<u>0.13</u>	<u>0.13</u>

**JOB TIME AND COST**

Total job time: 0.27 Hours

Total job cost: \$581