



STATE OF
COLORADO

Carter - DNR, Jocelyn <jocelyn.carter@state.co.us>

Falk Pit #1 M-2010-043 Conversion Application CN-1 Adequacy Review w/ Reclamation Cost Estimate

1 message

Carter - DNR, Jocelyn <jocelyn.carter@state.co.us>

Thu, Dec 12, 2024 at 11:37 AM

To: mason chamberlain <masonchamberlain@yahoo.com>

Cc: Amy Eschberger - DNR <amy.eschberger@state.co.us>, Corie Flores <corieflores@gmail.com>, Ursula Armstrong - DNR <ursula.armstrong@state.co.us>, Environment-Inc <environment-inc@outdrs.net>

Hello Mason and Corie,

Please see the attached adequacy letter for the CN-1 application. The remaining matter is the reclamation cost estimate for the permit. I have included an updated reclamation cost estimate that I calculated. Please take a look at it and if you have any questions, please let me know.

Just as a reminder, the decision date for this application is December 15, 2024, if you feel that you need more time to review and provide comments on the estimate, please submit a request to extend the decision date in writing before the decision date.

Thanks,
Jocelyn

--

Jocelyn Carter
Environmental Protection Specialist
Division of Reclamation, Mining, and Safety
1313 Sherman St Suite 215
Denver, CO 80203
cell: (720) 666-1065



20241212_FalkPit1_M2010043_CN1_AdequacyReview2_RCE.pdf

494K



December 12, 2024

Mason Chamberlain
Chamberlain Concrete
36415 U. S. Highway 385
P.O. Box 425
Wray, CO 80758

**RE: Falk Pit #1 - File No. M-2010-043,
Permit Conversion Application (CN-1)
Adequacy Review #2**

Dear Mason Chamberlain:

On August 20, 2024, the Division of Reclamation, Mining and Safety (Division/DRMS) considered the Construction Materials Reclamation Permit Conversion application (CN-1) for the Falk Pit #1, located in Phillips County, complete and filed. An adequacy review was sent by the Division on October 4, 2024, and with the responses provided on December 5, 2024, a reclamation cost estimate was calculated. Below is a summary of the updated reclamation cost estimate.

Rule 6.4.12 Exhibit L -Reclamation Costs

1. The updated calculated reclamation costs for the increased permit area to 13.19 acres and proposed operation are **\$57,575.00**. The current bond held by the Division is \$45,807.00, the estimate is an increase of \$11,678.00. Please see the attached complete cost estimate for the reclamation project for the CN-1 application. Review the calculated reclamation cost estimate and provide any comments in a letter to the Division by the decision date.

This concludes the Division's second adequacy review of the CN-1 application for the Falk Pit #1. The decision date for the CN-1 application is scheduled for **December 15, 2024**. Please respond in a timely manner to allow the Division about two weeks to review the responses to the issues outlined in this letter. If more time is required to address the items above, provide a written request for an extension of the decision date before **December 15, 2024**.

If you have any questions, please contact me by telephone at (720) 666-1065, or by email at Jocelyn.carter@state.co.us.

Sincerely,

Jocelyn L. Carter
Environmental Protection Specialist



December 12, 2024
Mason Chamberlain
Page **2** of **2**

Ec: Amy Eschberger, DRMS
Ursula Armstrong, DRMS
Corie Flores, Chamberlain Enterprises, LLC

Enclosures: DRMS CIRCES Cost Estimate

COST SUMMARY WORK

Task description: 000

Site: Falk Pit #1

Permit Action: 2024 CN1

Permit/Job#: M2010043

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 12/11/2024

County: Phillips

Filename: M043-000

User: JLC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill/Regrade Slopes to 3:1	DOZER	1	71.51	\$24,095
002	Replace Topsoil	DOZER	1	16.01	\$5,414
003	Revegetate the Site	REVEGE	1	5.00	\$12,426
004	Mob/Demob Reclamation Equipment	MOBILIZE	1	3.57	\$2,586
<u>SUBTOTALS:</u>				96.09	\$44,521

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$899

Performance bond: 1.05

Total = \$467

Job superintendent: 24.00

Total = \$1,902

Profit: 10.00

Total = \$4,452

TOTAL O & P = \$7,721

CONTRACT AMOUNT (direct + O & P) = \$52,242

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,220

Reclamation management and/or administration: 5.00

\$2,612

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$13,054

TOTAL BOND AMOUNT (direct + indirect) = \$57,575

BULLDOZER WORKTask description: **Backfill/Regrade Slopes to 3:1**Site: **FalkPit #1**Permit Action: **2024 CN1**Permit/Job#: **M2010043****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **12/11/2024**County: **Phillips**Filename: **001**User: **JLC**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:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$0.80	10
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$336.94**Total Fleet Cost/Hour: **\$336.94****MATERIAL QUANTITIES**Initial Volume: **17,913**Swell factor: **1.000**Loose volume: **17,913 LCY**Source of estimated volume: **Operator Estimate**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **150 feet**Unadjusted hourly production: **634.3 LCY/hr**Materials consistency description: **Consolidated stockpile 1.0**Average push gradient: **0 %**Average site altitude: **3,980 feet**Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 250.49 LCY/hr

Adjusted fleet production: **250.49** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.345/LCY

Total job time: **71.51** Hours

Total job cost: **\$24,095**

BULLDOZER WORKTask description: Replace TopsoilSite: FalkPit #1Permit Action: 2024 CN1Permit/Job#: M2010043**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 12/11/2024County: PhillipsFilename: 002User: JLCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData 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:	\$1.99	25
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$338.13Total Fleet Cost/Hour: **\$338.13****MATERIAL QUANTITIES**Initial Volume: 5,640Swell factor: 1.000Loose volume: **5,640** LCYSource of estimated volume: Operator EstimateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 3,980 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7161

Adjusted unit production: 352.25 LCY/hr

Adjusted fleet production: **352.25** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.960/LCY

Total job time: **16.01** Hours

Total job cost: **\$5,414**

REVEGETATION WORKTask description: Revegetate the SiteSite: Falk Pit #1Permit Action: 2024 CN1Permit/Job#: M2010043**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 12/11/2024County: PhillipsFilename: 003User: JLCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Kaw	2.20	6.57	\$34.52
Indiangrass - Cheyenne	1.00	3.05	\$12.30
Switchgrass - Blackwell	2.00	17.86	\$26.44
Alfalfa - Ladak (inoculated)	0.80	3.86	\$3.18
Western Wheatgrass - Barton	1.60	4.04	\$15.03
Totals Seed Mix	7.60	35.37	\$91.48

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Total Mulch Application Cost/Acre	\$85.37

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 8.39 Cost /Acre: \$1,399.05
 Estimated Failure Rate: 25% Cost /Acre*: \$328.12
 *Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$11,738.03**
 Reseeding Job Cost: **\$688.23**
 Total Job Cost: **\$12,426**
 Job Hours: **5.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob Reclamation Equipment**Site: **Falk Pit #1**Permit Action: 2024 CN1Permit/Job#: M2010043**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 12/11/2024County: PhillipsFilename: 004User: JLCAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:**

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 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	\$187.85	\$125.64	1	\$313.49	\$125.64	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00

Subtotals: **\$514.41** **\$244.52** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$97.64	1	\$97.64	\$97.64

Subtotals: **\$97.64** **\$97.64**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: YUMA
 Total one-way travel distance: 33.00 miles
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost * \$2,442.32
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$143.21
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.73</u>	<u>0.73</u>
Return Time (Hours):	<u>0.73</u>	<u>0.73</u>
Loading Time (Hours):	<u>0.16</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.16</u>	<u>NA</u>
Subtotals:	<u>1.79</u>	<u>1.47</u>

JOB TIME AND COST

Total job time: 3.57 Hours

Total job cost: \$2,586