



June 10, 2024

John Thompson
W.W. Clyde & Co.
10303 East Dry Creek Road #300
Englewood, CO 80112

RE: Collette Property, File No. M-2024-012, Construction Material Special (111) Operation Reclamation Permit Application Package- Adequacy Review 2

Dear Mr. Thompson:

The Division of Reclamation, Mining and Safety (Division) received your incompleteness responses for the Construction Material Special (111) Operation Reclamation Permit Application package for the Collette Property, File No. M-2024-012. The application was filed on June 10, 2024. The Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval.

1. Based on the reclamation plan and reclamation cost provided the Division has calculated the estimated financial warranty for this site to be \$79,822. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted. Submit an executable financial warranty in the amount of \$79,822

Please submit your response(s) to the above listed issue(s) by **Friday, June 21, 2024** in order to allow the Division sufficient time for review. The decision date for your application is scheduled for **June 25, 2024**.

If you require additional information, or have questions or concerns, please feel free to contact me at amy.yeldell@state.co.us or 970-210-1272.

Sincerely,

Amy Yeldell
Environmental Protection Specialist

Cc:
Travis Marshall
Sara Stevenson-Benn



COST SUMMARY WORK

Task description: Replacement Permit

Site: Collett Property

Permit Action: App

Permit/Job#: M2024012

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 5/20/2024

County: Rio Blanco

Filename: M012-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade all slopes to 3.2H: 1V	DOZER	1	79.24	\$20,771
02a	Rip affected lands prior to topsoil application	RIPPER	1	12.14	\$3,184
03a	Apply topsoil to affected lands	DOZER	1	49.33	\$12,756
04a	Reveg Affected Lands	REVEGE	1	12.00	\$21,115
05a	Initial Mobilization	MOBILIZE	1	3.45	\$3,167
05b	Secondary Mobilization	MOBILIZE	1	3.45	\$1,698
<u>SUBTOTALS:</u>				159.61	\$62,691

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,266

Performance bond: 1.05

Total = \$658

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$6,269

TOTAL O & P = \$8,194

CONTRACT AMOUNT (direct + O & P) = \$70,885

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$3,013

Reclamation management and/or administration: 5.00

\$3,544

CONTINGENCY: 3.00

Total = \$1,881

TOTAL INDIRECT COST = \$17,131

TOTAL BOND AMOUNT (direct + indirect) = \$79,822

BULLDOZER WORKTask description: **Regrade all slopes to 3.2H: 1V**Site: **Collett Property**Permit Action: AppPermit/Job#: M2024012**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 5/20/2024County: Rio BlancoFilename: M012-01aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS Series II LGPHorsepower: 240Blade Type: StraightAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$114.76	NA
Operating Cost/Hour:	\$91.98	100
Ripper own. Cost/Hour:	\$9.06	NA
Ripper op. Cost/Hour:	\$5.02	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$262.12Total Fleet Cost/Hour: **\$262.12****MATERIAL QUANTITIES**Initial Volume: 6,111Swell factor: 1.250Loose volume: **7,639 LCY**Source of estimated volume: 3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfillSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 800.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 30 %Average site altitude: 7,400 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1205

Adjusted unit production: 96.40 LCY/hr

Adjusted fleet production: **96.4** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.719/LCY

Total job time: **79.24** Hours

Total job cost: **\$20,771**

BULLDOZER RIPPING WORK

Task description: Rip affected lands prior to topsoil application

Site: Collett Property Permit Action: App Permit/Job#: M2024012

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 5/20/2024 County: Rio Blanco Filename: M012-02a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP Horsepower: 240
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$114.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$91.98</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$9.06</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$5.02</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$262.12</u>	
Total Fleet Cost/Hour:	<u>\$262.12</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 7.30 acres Rip Depth (ft): 2.00 Volume: 23,555 BCY or CCY

Source of estimated quantity: Reclamation Plan

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.45</u>	<u>feet/pass</u>
Average Ripping Width:	<u>6.50</u>	<u>feet/pass</u>
Average Ripping Length:	<u>250.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.724</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.724</u>	<u>Acres/hr</u>
Site Altitude:	<u>7,400</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Adjusted Hourly Unit Production: 0.60 Acres/hr
Adjusted Hourly Fleet Production: 0.60 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 12.15 Hours

Unit cost: \$436.105 Per acre Total job cost: \$3,184

BULLDOZER WORKTask description: Apply topsoil to affected landsSite: Collett PropertyPermit Action: AppPermit/Job#: M2024012**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 5/20/2024County: Rio BlancoFilename: M012-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS Series II LGPHorsepower: 240Blade Type: StraightAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$114.76	NA
Operating Cost/Hour:	\$91.98	100
Ripper own. Cost/Hour:	\$9.06	NA
Ripper op. Cost/Hour:	\$1.51	30
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$258.61Total Fleet Cost/Hour: **\$258.61****MATERIAL QUANTITIES**Initial Volume: 4,907Swell factor: 1.215Loose volume: **5,962 LCY**Source of estimated volume: 7.3 ac @ 5" of topsoilSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 250 feetUnadjusted hourly production: 230.4 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 15 %Average site altitude: 7,400 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
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:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5246

Adjusted unit production: 120.87 LCY/hr

Adjusted fleet production: **120.87** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.140/LCY

Total job time: **49.33** Hours

Total job cost: **\$12,756**

REVEGETATION WORKTask description: Reveg Affected LandsSite: Collett PropertyPermit Action: AppPermit/Job#: M2024012**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 5/20/2024County: Rio BlancoFilename: M012-04aUser: ACYAgency 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.70	11.98	\$24.05
Galleta	4.38	15.99	\$97.89
Needle and Thread	6.06	16.00	\$253.61
Western Wheatgrass - Native	5.52	13.94	\$33.12
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$569.81

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Total Mulch Materials Cost/Acre				\$863.58

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$284.85

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:	7.3	Cost /Acre:	\$2,098.28
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,985.46
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	\$15,317.44		
Reseeding Job Cost:	\$5,797.54		
Total Job Cost:	\$21,115		
Job Hours:	12.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Collett Property**Permit Action: **App**Permit/Job#: **M2024012****PROJECT IDENTIFICATION**Task #: **05A**State: **Colorado**Abbreviation: **None**Date: **5/20/2024**County: **Rio Blanco**Filename: **M012-05a**User: **ACY**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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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 D7R DS Series II LGP	38.49	\$123.82	\$158.17	1	\$281.99	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$479.24** **\$322.75** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$116.51	1	\$116.51	\$116.51
Light Duty Pickup, 4x4, 1 T. Crew	\$55.12	1	\$55.12	\$55.12

Subtotals: **\$171.63** **\$171.63**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: RIFLE, CO
 Total one-way travel distance: 20.00 miles
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost * \$3,041.75
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$124.82
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.73	0.73

JOB TIME AND COST

Total job time: 3.45 Hours

Total job cost: \$3,167

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: Collett PropertyPermit Action: AppPermit/Job#: M2024012**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 5/20/2024County: Rio BlancoFilename: M012-05bUser: ACYAgency 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:	\$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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$197.25** **\$164.58** **\$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, 1 T. Crew	\$55.12	1	\$55.12	\$55.12

Subtotals: **\$55.12** **\$55.12**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RIFLE, CO</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,657.65</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$40.09</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.36</u>	<u>0.36</u>
Return Time (Hours):	<u>0.36</u>	<u>0.36</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.73</u>	<u>0.73</u>

JOB TIME AND COST

Total job time:	<u>3.45</u>	Hours
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Total job cost:	<u>\$1,698</u>
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