



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

1313 Sherman Street, Room 215
Denver, CO 80203

July 19, 2021

Jason Burkey
Oldcastle SW Group, Inc. dba United Companies of Mesa County
2273 River Road
Grand Junction, CO 81502-3609

RE: Craig Ranch Pit, Permit No. M-1986-002, Reclamation Costs Update and Notice of Surety Increase (SI-3)

Dear Mr. Burkey:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be \$276,821.00. This is an increase of \$53,471.00 over the \$223,350.00 currently held by the Division. This estimate is based on conditions observed during the May 26, 2021 inspection. ***Therefore, pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.*** The additional amount needs to be accepted prior to **Friday, September 17, 2021**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Jeff Thompson at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8138 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Jeff Thompson.

If you require additional information, or have questions or concerns, please feel free to contact me.

Sincerely,

Amy Yeldell
Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS
Jeff Thompson, Financial Warranty Specialist, DRMS



COST SUMMARY WORK

Task description: 5-26-21 Inspection Update

Site: Craig Ranch Pit

Permit Action: 2021-05

Permit/Job#: M1986002

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 7/19/2021

County: Mesa

Filename: M002-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
02a	Regrade near vertical side slopes to 3H:1V	DOZER	1	10.81	\$2,541
03a	Fiinish placement of overburden and wash fines	SCRAPER1	2	27.68	\$57,944
04a	Bring topsoil from stockpile, place topsoil on 30 acres	SCRAPER1	2	30.68	\$64,215
05a	Revegetation of 30 acres	REVEGE	1	40.00	\$79,973
06a	Initial Mobilization	MOBILIZE	1	2.62	\$8,718
06b	Secondary Mobilization	MOBILIZE	1	2.62	\$1,437
<u>SUBTOTALS:</u>				114.41	\$214,828

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$4,340

Performance bond: 1.05

Total = \$2,256

Job superintendent: 57.21

Total = \$4,120

Profit: 10.00

Total = \$21,483

TOTAL O & P = \$32,198

CONTRACT AMOUNT (direct + O & P) = \$247,026

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$10,499

Reclamation management and/or administration: 5.00

\$12,351

CONTINGENCY: 3.00

Total = \$6,445

TOTAL INDIRECT COST = \$61,993

TOTAL BOND AMOUNT (direct + indirect) = \$276,821

BULLDOZER WORKTask description: **Regrade near vertical side slopes to 3H:1V**Site: **Craig Ranch Pit**Permit Action: 2021-05Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 7/19/2021County: MesaFilename: M002-02aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$97.46	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$235.13Total Fleet Cost/Hour: **\$235.13****MATERIAL QUANTITIES**Initial Volume: 4,000Swell factor: 1.180Loose volume: **4,720 LCY**Source of estimated volume: Table L-1Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 4,700 feetMaterial weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry**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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4294

Adjusted unit production: 436.74 LCY/hr

Adjusted fleet production: **436.74** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.538/LCY

Total job time: **10.81** Hours

Total job cost: **\$2,541**

SCRAPER TEAM WORKTask description: **Fiinish placement of overburden and wash fines**Site: **Craig Ranch Pit**Permit Action: 2021-05Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 7/19/2021County: MesaFilename: M002-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$188.81	\$97.46	NA	\$97.46	NA	NA
Operating cost/hour:	\$169.82	\$97.63	NA	\$97.63	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$47.07	\$40.04	NA	\$40.04	NA	NA
Unit Subtotals:	\$405.70	\$235.13	NA	\$235.13	NA	NA
Number of Units:	4	1	0	1	0	0
Group Subtotals:	Work:	\$1,857.93	Support:	\$235.13	Maint:	\$0.00

Total work team cost/hour: **\$2,093.06****MATERIAL QUANTITIES**Initial volume: 35,000

CCY

Swell factor: 1.000Loose volume: **35,000**

LCY

Source of estimated volume: Table L-1Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 52,800 pounds
 Payload Capacity: 19.56 LCY

Struck Volume: 15.70 LCY
 Heaped Volume: 22.00 LCY
 Average Volume: 18.85 LCY
 Adjusted Capacity: **18.85** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	5.00	3.00	8.00	1381	0.97

Haul Time: 0.97 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	-5.00	3.00	-2.00	2938	0.50

Return Time: 0.50 minutesTotal Scraper team cycle time: 2.97 minutesAdjusted for job conditions: 632.14 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 632.14 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,264.28 LCY/HourUnadjusted unit production/hour: 761.62 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 2 Team(s)Total job time: 27.68 HoursUnit cost: \$1.656 /LCYTotal job cost: \$57,944

SCRAPER TEAM WORKTask description: **Bring topsoil from stockpile, place topsoil on 30 acres**Site: **Craig Ranch Pit**Permit Action: 2021-05Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 7/19/2021County: MesaFilename: M002-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$188.81	\$97.46	NA	\$97.46	NA	NA
Operating cost/hour:	\$169.82	\$97.63	NA	\$97.63	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$47.07	\$40.04	NA	\$40.04	NA	NA
Unit Subtotals:	\$405.70	\$235.13	NA	\$235.13	NA	NA
Number of Units:	4	1	0	1	0	0
Group Subtotals:	Work:	\$1,857.93	Support:	\$235.13	Maint:	\$0.00

Total work team cost/hour: **\$2,093.06****MATERIAL QUANTITIES**Initial volume: 36,000

CCY

Swell factor: 1.000Loose volume: **36,000**

LCY

Source of estimated volume: Table L-1 Reclamation task and Cost EstimateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>33.00 LCY</u>	Adjusted Capacity:	<u>18.85</u>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4700 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	5.00	3.00	8.00	1381	1.13

Haul Time: 1.13 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-5.00	3.00	-2.00	2938	0.57

Return Time: 0.57 minutesTotal Scraper team cycle time: 3.20 minutesAdjusted for job conditions: 586.71 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 586.71 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,173.41 LCY/HourUnadjusted unit production/hour: 706.88 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 2 Team(s)Total job time: 30.68 HoursUnit cost: \$1.784 /LCYTotal job cost: \$64,215

REVEGETATION WORKTask description: Revegetation of 30 acresSite: Craig Ranch PitPermit Action: 2021-05Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 7/19/2021County: MesaFilename: M002-05aUser: 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)	\$114.56
Total Tilling Cost/Acre	\$114.56

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	6.30	752.07	\$61.43
Sandberg Bluegrass - VNS	5.00	106.18	\$42.00
Galleta	6.30	23.00	\$140.81
Triticale	10.00	5.74	\$7.50
Saltbush, Four Wing	0.60	0.83	\$7.50
Globemallow, Scarlet (or copper)	1.30	14.72	\$176.15
Winter Fat	3.80	9.68	\$77.90
Yarrow, Western	1.30	79.03	\$54.34
Kochia, Forage (Prostrate)	0.60	84.27	\$5.39

Totals Seed Mix	35.20	1,075.51	\$573.01
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Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.98	\$2.98
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$617.02

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$71.57
Power mulcher (MEANS 32 91 13.16 0350)	\$106.29
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$240.58

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: 30 Cost /Acre: \$1,777.17
 Estimated Failure Rate: 50% Cost /Acre*: \$1,777.17
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$53,315.10**
 Reseeding Job Cost: **\$26,657.55**
 Total Job Cost: **\$79,973**
 Job Hours: **40.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Whitewater Quarry**Permit Action: **2021-05**Permit/Job#: **M1986002****PROJECT IDENTIFICATION**Task #: **06A**State: **Colorado**Abbreviation: **None**Date: **7/19/2021**County: **Mesa**Filename: **M002-06a**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:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

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	47.71	\$97.46	\$132.49	2	\$459.90	\$264.98	\$500.00
Cat 627G w/push-pull	43.48	\$188.81	\$132.49	4	\$1,285.20	\$529.96	\$1,000.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00

Subtotals: **\$1,904.80** **\$931.68** **\$2,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$41.16	2	\$82.32	\$82.32

Subtotals: **\$82.32** **\$82.32**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>7.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$8,692.06</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$25.61</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.16</u>	<u>0.16</u>
Return Time (Hours):	<u>0.16</u>	<u>0.16</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.31</u>	<u>0.31</u>

JOB TIME AND COST

Total job time:	<u>2.62</u>	Hours
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Total job cost:	<u>\$8,718</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **Whitewater Quarry**Permit Action: 2021-05Permit/Job#: M1986002**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 7/19/2021County: MesaFilename: M002-06bUser: 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:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

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	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00
Subtotals:					\$159.70	\$136.74	\$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.	\$41.16	2	\$82.32	\$82.32
Subtotals:			\$82.32	\$82.32

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>7.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,411.63</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$25.61</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.16</u>	<u>0.16</u>
Return Time (Hours):	<u>0.16</u>	<u>0.16</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.31</u>	<u>0.31</u>

JOB TIME AND COST

Total job time:	<u>2.62</u>	Hours
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Total job cost:	<u>\$1,437</u>
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