



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

March 4, 2024

Chris Hurley
IHC Scott, Inc.
10303 E. Dry Creek Road., #300
Englewood, CO 80112

Re: Piceance Pit - File No. M-2001-077
IHC Scott, Inc.
Surety Increase (SI-1)
Post inspection surety increase

Dear Chris Hurley:

On March 4, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$208,299.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$167,891.00.

Please see the November 30, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (March 4, 2024).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after May 3, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$40,408.00
Prior Liability:	\$40,408.00
Change in Liability:	\$167,891.00
Revised Liability:	\$208,299.00
Prior Permit Acreage:	34.13



Change in Permit Acreage:	0.00
Revised Permit Acreage:	34.13
Prior Affected Acreage:	34.13
Change in Affected Acreage:	0.00
Revised Affected Acreage:	34.13

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell
Environmental Protection Specialist



December 13, 2023

Chris Hurley
ICH Scott, Inc.
10303 E. Dry Creek Rd, #300
Englewood, CO 80112

RE: Piceance Pit, Permit No. M-2001-077, Reclamation Cost Estimate

Dear Mr. Hurley:

This reclamation cost updated was in response to the site inspection conducted on November 30, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2022 with SO-4. Significant activity has occurred on site since the previous calculation. Below is a table summarizing input values. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Assumptions:

- Site is 34.13 ac w/ 4.5 ac undisturbed. Pit/pond footprint is 12 ac
- All slopes go to a 3H: 1V or less

Task	Form Used	Description
01a	Demo	Remove Scale footers 70' x 15'
02a	Pumping	Dewater 12 ac pond approx. 10 ft prior to grading
03a	Dozer	Highwall Grading to 3H: 1V = 6,064 BCY 800 LF @20'H 2H: 1V to 3H: 1V cut/fill = 1,481 900LF @21'H 1H: 1V to 3H: 1V cut/fill = 3,333 BCY, 600 LF @ 15'H 1H: 1V to 3H: 1V cut/fill = 1,250 BCY
04a	Grader	Decompact pit stockpile areas 17.63 ac



Task	Form Used	Description
05a	Scraper	Spread topsoil 8" over 17.63 ac = 18,962 CCY Avg distance 1500 LF away 34.13ac - 12 ac pond- 4.5ac undisturbed = 17.63 ac
06a	Reveg	Reveg all areas where Topsoil was applied Riparian Mix – 3,100 LF perimeter of pond x 20ft (partially above and below water) total of 1.42 ac
06b	Reveg	Upland Mix – (17.63 ac topsoiled–1. 24 ac wetland) 16.21 ac (stockpile area and perimeter berms)
10a	Mob	Initial Mobilization
10b	Mob	Secondary Mobilization
Indirect		DRMS Standard Overhead Costs: Liability insurance, performance bond, profit, administration, Legal, Engineering and Project Management

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by Monday, February 12, 2024 then I'll issue SI-1 as is. SI-1 will result in a total required bond amount of **\$208,299**, which is an increase of **\$167,891** over the \$40,408.00 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@ state.co.us

Sincerely,



Amy Yeldell
Environmental Protection Specialist

COST SUMMARY WORK

Task description: Post inspection update 11-30-23

Site: Piceance Pit

Permit Action: 2023-11

Permit/Job#: M2001077

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 12/12/2023

County: Rio Blanco

Filename: M077-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo structures	DEMOLISH	1	8.00	\$1,146
02a	Dewater Pit	PUMPING	1	445.59	\$21,901
03a	Regrade highwalls to 3H: 1V	DOZER	2	7.21	\$6,149
04a	Rip Compacted areas	GRADER	1	14.21	\$2,499
05a	Transport and apply topsoil	SCRAPER1	1	32.32	\$80,372
06a	Reveg Riparian Areas	REVEGE	1	3.00	\$1,331
06b	Reveg Upland Areas	REVEGE	1	24.00	\$15,727
10a	Initial Mobilization	MOBILIZE	1	11.60	\$27,130
10b	Secondary Mobilization	MOBILIZE	1	11.60	\$2,728
<u>SUBTOTALS:</u>				557.53	\$158,983

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,211

Performance bond: 1.05

Total = \$1,669

Job superintendent: 278.77

Total = \$18,142

Profit: 10.00

Total = \$15,898

TOTAL O & P = \$38,921

CONTRACT AMOUNT (direct + O & P) = \$197,904

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$9,895

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$49,316

TOTAL BOND AMOUNT (direct + indirect) = \$208,299

DEMOLITION WORK

Task description: **Demo structures**

Site: **Piceance Pit**

Permit Action: 2023-11

Permit/Job#: M2001077

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 12/12/2023

County: Rio Blanco

Filename: M077-01a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 89.80 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale footers	70' x 15'	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft. - Max. 200 ft. push	170.00	LF	\$7.51	\$1,276.16

Job Hours: **8.00**

Subtotal
(unadjusted): **\$1,276.16**

Total Cost
(adjusted for location): **\$1,145.99**

PUMPING WORK

Task description: Dewater Pit

Site: Piceance Pit

Permit Action: 2023-11

Permit/Job#: M2001077

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 12/12/2023

County: Rio Blanco

Filename: M077-02a

User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Submersible pump - 460v, 6 in.	1
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	2
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	6
Labor Unit 1:	Pump operator	1

Horsepower: 60

Shift Basis: 1 per day

Weight: 0.45

(US Tons)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$17.64	NA
Operating Cost/Hour:	\$3.83	100
Operator Cost/Hour:	\$27.68	NA
Total Unit Cost/Hour:	\$49.15	

Total Fleet Cost/Hour: \$49.15

PUMPING QUANTITIES

Initial Pond Volume:	<u>120.00</u>		Conversion factor:	<u>325850.5800</u>
Final Pond Volume:	<u>39,102,069.60</u>	gallons		
Total Pond Inflow Surface Area:	<u>450,500</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.:	<u>0.1758</u>
Total Pond Inflow Volume per Hour:	<u>79,197.90</u>	gallons		

Source of estimated volume: 12 ac pond 10 ft deep bottom inflow

PUMPING TIME

Maximum Pump Capacity:	<u>130,000</u>	gph/pump
Estimated Suction Head:	<u>5</u>	feet
Estimated Discharge Head:	<u>15</u>	feet
Total Head:	<u>20</u>	feet
CPB Pump Capacity:	<u>129,600</u>	gph/pump
Site Altitude:	<u>5,700</u>	feet
Adjusted Pumping Capacity:	<u>129,600</u>	gph
Initial Unadjusted Pumping Time:	<u>301.71</u>	hours
Inflow during Initial Pumping:	<u>23,895,076</u>	gallons
Net Unadjusted Pumping Time:	<u>486.09</u>	Hours
Altitude Adjustment Factor:	<u>1.0000</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>445.60</u>	hours

JOB TIME AND COST

Total job time: 445.60 Hours

Unit cost: \$0.000348 /Gallon

Total job cost: \$21,901

BULLDOZER WORKTask description: **Regrade highwalls to 3H: 1V**Site: **Piceance Pit**Permit Action: 2023-11Permit/Job#: M2001077**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 12/12/2023County: Rio BlancoFilename: M077-03aUser: 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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$853.20****MATERIAL QUANTITIES**Initial Volume: 6,064Swell factor: 1.250Loose volume: **7,580 LCY**Source of estimated volume: Division of Reclamation, Mining & SafetySource 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: -15 %Average site altitude: 5,700 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5170

Adjusted unit production: 525.84 LCY/hr

Adjusted fleet production: **1051.68** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.811/LCY

Total job time: **7.21** Hours

Total job cost: **\$6,149**

MOTOR GRADER WORK

Task description: Rip Compacted areas

Site: Piceance Pit Permit Action: 2023-11 Permit/Job#: M2001077

PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 12/13/2023 County: Rio Blanco Filename: M077-04a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 120M Horsepower: 138
Ripper Attachment: Multi-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$85.55</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$56.03</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$3.09</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$2.57</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.56</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$175.80</u>	
Total Fleet Cost/Hour:	<u>\$175.80</u>	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 17.63 acres

Source of estimated acreage: Staff estimates

HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Ripping (0-3 mph) - 1.50
Selected Blade Angle: -1 degrees
Effective Blade Length: 0.00 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 7.58 feet
Unadjusted Hourly Unit Production: 1.3782 acres/hour

Job Condition Correction Factors

Site Altitude: 5700 feet

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

Adjusted Hourly Unit Production: 1.2404 acres/Hour
Adjusted Hourly Fleet Production: 1.2404 acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 14.21 Hours

Unit cost: \$141.73 per acre Total job cost: \$2,499

SCRAPER TEAM WORKTask description: Transport and apply topsoilSite: Piceance PitPermit Action: 2023-11Permit/Job#: M2001077**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 12/13/2023County: Rio BlancoFilename: M077-05aUser: 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:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 120M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

Scraper Work Team

Support Equipment

Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	30	100	30	25
Ownership cost/hour:	\$249.04	\$241.38	\$241.38	\$241.38	\$85.55	\$11.35
Operating cost/hour:	\$289.36	\$143.92	\$43.18	\$143.92	\$16.81	\$5.73
%Utilization-ripper:	NA	NA	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:	\$30.90	\$41.30	\$41.30	\$41.30	\$28.56	\$21.12
Unit Subtotals:	\$569.30	\$426.60	\$325.86	\$426.60	\$130.91	\$38.20
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work: \$1,565.20		Support: \$752.46		Maint: \$169.11	

Total work team cost/hour: \$2,486.77**MATERIAL QUANTITIES**Initial volume: 18,962

CCY

Swell factor: 1.115Loose volume: 21,143

LCY

Source of estimated volume: 17.63 ac at 8" thickSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight:	<u>2,100 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Earth - Loam</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>25.14 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: 5700 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	0.00	3.00	3.00	2824	0.73

Haul Time: 0.73 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	3.00	3.00	2874	0.64

Return Time: 0.64 minutesTotal Scraper team cycle time: 2.87 minutesAdjusted for job conditions: 654.17 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 654.17 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 654.17 LCY/HourUnadjusted unit production/hour: 788.15 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 32.32 HoursUnit cost: \$3.801 /LCYTotal job cost: \$80,372

REVEGETATION WORKTask description: Reveg Riparian AreasSite: Piceance PitPermit Action: 2023-11Permit/Job#: M2001077**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 12/13/2023County: Rio BlancoFilename: M077-06aUser: 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
Alkali Sacaton	1.00	39.03	\$28.48
Streambank Wheatgrass - Sodar	5.50	17.93	\$31.35
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Saltgrass, Inland	1.50	20.79	\$64.20
Tufted Hairgrass	1.00	57.39	\$11.03
Basin Wildrye - Trailhead	5.00	20.32	\$77.05
Totals Seed Mix	22.00	175.66	\$258.10

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	\$4.01	\$4.01
Total Mulch Materials Cost/Acre				\$4.01

Application

Description	Cost /Acre
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$62.72

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: 1.42 Cost /Acre: \$669.65
 Estimated Failure Rate: 40% Cost /Acre*: \$669.65
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$950.90**
 Reseeding Job Cost: **\$380.36**
 Total Job Cost: **\$1,331**
 Job Hours: **3.00**

REVEGETATION WORKTask description: Reveg Upland AreasSite: Piceance PitPermit Action: 2023-11Permit/Job#: M2001077**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 12/13/2023County: Rio BlancoFilename: M077-06bUser: 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 - Nespar	6.00	19.42	\$53.25
Bluebunch Wheatgrass - Secar	6.00	19.28	\$65.25
Bottlebrush Squirreltail	4.50	19.83	\$73.01
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Streambank Wheatgrass - Sodar	5.50	17.93	\$31.35
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Totals Seed Mix	31.50	128.52	\$281.46

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	\$4.01	\$4.01
Total Mulch Materials Cost/Acre				\$4.01

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$62.72

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: 16.21 Cost /Acre: \$693.01
 Estimated Failure Rate: 40% Cost /Acre*: \$693.01
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$11,233.69**
 Reseeding Job Cost: **\$4,493.48**
 Total Job Cost: **\$15,727**
 Job Hours: **24.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Piceance Pit**Permit Action: **2023-11**Permit/Job#: **M2001077****PROJECT IDENTIFICATION**

Task #: **10A** State: **Colorado** Abbreviation: **None**
 Date: **12/13/2023** County: **Rio Blanco** Filename: **M077-10a**
 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
Submersible pump - 460v, 6 in.	0.45	\$13.66	\$82.29	1	\$95.95	\$82.29	\$250.00
Cat 307D 7'-3" Stick	7.95	\$37.88	\$82.29	1	\$120.17	\$82.29	\$250.00
Cat 627G w/push-pull	43.48	\$249.04	\$158.17	2	\$814.42	\$316.34	\$500.00
Cat D8T - 8SU	53.08	\$255.49	\$175.95	2	\$862.88	\$351.90	\$750.00
Water Tanker, 2,500 Gal.	5.25	\$11.35	\$82.29	1	\$93.64	\$82.29	\$250.00
CAT 120M	15.53	\$88.64	\$82.29	1	\$170.93	\$82.29	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: **\$2,247.01** **\$1,079.69** **\$2,500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58

Light Duty Pickup, 4x4, 1 T. Crew	\$127.92	2	\$255.84	\$255.84
Subtotals:			\$347.42	\$347.42

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION

Total one-way travel distance: 120.00 miles

Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig: \$25,462.18

Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig: \$1,667.62

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	2.40	2.40
Return Time (Hours):	2.40	2.40
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	5.80	4.80

JOB TIME AND COST

Total job time: 11.60 Hours

Total job cost: \$27,130

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: Piceance PitPermit Action: 2023-11Permit/Job#: M2001077**PROJECT IDENTIFICATION**Task #: 10BState: ColoradoAbbreviation: NoneDate: 12/13/2023County: Rio BlancoFilename: M077-10bUser: 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

Subtotals: **\$89.02** **\$82.29** **\$250.00****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	\$127.92	2	\$255.84	\$255.84

Subtotals: **\$255.84** **\$255.84**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>120.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,500.33</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$1,228.03</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>2.40</u>	<u>2.40</u>
Return Time (Hours):	<u>2.40</u>	<u>2.40</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>5.80</u>	<u>4.80</u>

JOB TIME AND COST

Total job time:	<u>11.60</u>	Hours
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Total job cost:	<u>\$2,728</u>
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