May 31, 2017

Peter Freedman
AuPt Industries LLC
PO Box 1424
Edwards, CO 81632

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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: West Side Placer, File No.M-2016-081, Hard Rock/Metal Mining Limited Impact Operation (110(2)) Reclamation Permit Conversion Application (CN-1), Decision Letter – Financial and Performance Warranty Request

Dear Mr. Freedman:

On May 31, 2017, the Division of Reclamation, Mining and Safety (Division) approved the above noted permit conversion application submitted to the Division on April 10, 2017, addressing the following:

Converting from a 4 ac 110(1) permit to a 9.9 ac 110(2) permit. Additional changes to the mining and reclamation plans and maps.

The terms of the Conversion No. CN-1 approved by the Division are hereby incorporated into Permit No. M-2016-081. All other conditions and requirements of Permit No.M-2016-081 remain in full force and effect.

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 Division has updated the reclamation cost estimate to include changed made through CN-1 (copy enclosed).

The estimated liability amount of *$34,483* exceeds the *$ 30,186.49* Financial Warranty currently held for this site. **If you have not already done so, please submit additional bond in the amount of *$4,296.51. Therefore, pursuant to Section 34–32–117(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 **Tuesday, August 01, 2017**. **The revision will not be final until the bond is approved by the Division.**

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Yeldell
Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety
Phone: (970) 254-8511
Fax: (970) 241-1516

Ec:
Russ Means, Senior EPS, Grand Junction DRMS
Philip Courtney, Colorado State Land Board

COST SUMMARY WORK

Task description: **Updates from CN-1**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: ACY State: Colorado Abbreviation: None
Date: 4/25/2017 County: Moffat Filename: M081-ACY
User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Plug water well	BOREHOLE	1	4.00	$1,975.08
02a	Regrading Pond (1x)	DOZER	1	1.77	$339.00
02b	Overburden replacement and grading of mining phases	SCRAPER1	1	21.17	$15,067.00
03a	Topsoil replacement of mining phases	SCRAPER1	1	2.94	$2,093.00
03b	Grading topsoil in mining phase	DOZER	1	2.91	$557.00
04a	Seed mining phases	REVEGE	1	8.00	$1,106.00
04b	Seed roads, pond and operating areas	REVEGE	1	8.00	$737.00
05a	Initial Mobilization	MOBILIZE	1	5.78	$4,500.00
05b	Secondary Mobilization	MOBILIZE	1	5.78	$1,136.00
	SUBTOTALS:			**60.35**	**$27,510**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	$555.70
Performance bond:	1.05	Total =	$288.86
Job superintendent:	0.00	Total =	$0.00
Profit:	10.00	Total =	$2,751.00
		TOTAL O & P =	$3,595.56
		CONTRACT AMOUNT (direct + O & P) =	$31,105.56

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	4.25	Total =	$1,321.99
Reclamation management and/or administration:	5.00		$1,555.28
CONTINGENCY:	0.00	Total =	$0.00
		TOTAL INDIRECT COST =	$6,972.82

TOTAL BOND AMOUNT (direct + indirect) = $34,482.82

TOTAL BOND AMOUNT (rounded) = $34,483.00

BOREHOLE SEALING WORK

Task description: **Plug water well**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-01a
User: ACY

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug lower portion of well	Bentonite seal - 8 in. (labor, equip, materials)	7.875	295	295.00	LF	$6.40	$1,888.00
Plug upper portion of well	Portland cement grout - 10 in. (labor, equip, materials)	8.625	5	5.00	LF	$16.68	$83.42
Marker	Borehole location/identification marker (EA, material cost only)	8.625	1	1.00	EA	$3.67	$3.67

Job Hours: **4.00** **Total Cost**: **$1,975.00**

BULLDOZER WORK

Task description: **Regrading Pond (1x)**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-02a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$83.81	NA
Operating Cost/Hour:	$66.17	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.85	NA

Total unit Cost/Hour: $191.83
Total Fleet Cost/Hour: **$191.83**

MATERIAL QUANTITIES

Initial Volume: 887
Swell factor: 1.060
Loose volume: **940** LCY

Source of estimated volume: 1 pond-2993 sqft x 8' deep
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: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,225 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

Job Condition Correction Factor		Source
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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3801

Adjusted unit production: 532.14 LCY/hr
Adjusted fleet production: **532.14** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.360/LCY

Total job time: **1.77** Hours
Total job cost: **$339**

SCRAPER TEAM WORK

Task description: **Overburden replacement and grading of mining phases**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02B State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-02b
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT

COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-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	NA	100	100	NA	NA
Ownership cost/hour:	$143.40	NA	$83.81	$83.81	NA	NA
Operating cost/hour:	$153.53	NA	$66.17	$66.17	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	$0.00	$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	$0.00	$0.00	NA	NA
Operator cost/hour:	$31.26	NA	$41.85	$41.85	NA	NA
Unit Subtotals:	$328.19	NA	$191.83	$191.83	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work:	$328.19	Support:	$383.66	Maint:	$0.00

Total work team cost/hour: **$711.85**

MATERIAL QUANTITIES

Initial volume: 9,999 CCY Swell factor: 1.000
Loose volume: **9,999** LCY

Source of estimated volume: 72" x 75' x 600' strips
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Material weight: 3,400 lbs/LCY
Material description: Sand and gravel - Wet
Rated Payload: 81,600 pounds
Payload Capacity: 24.00 LCY

Scraper Bowl (volume) Basis:

Struck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **24.00** LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction: Site Altitude: 6225 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Loose sand or gravel 10

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: **0.68** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: **0.45** minutes

Total Scraper team cycle time: **2.53** minutes
Adjusted for job conditions: 472.41 LCY/Hour
Selected Number of Scrapers: 1 Scraper(s)
Adjusted single scraper team (unit) hourly production: 472.41 LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: **472.41** LCY/Hour

Unadjusted unit production/hour: 569.17 LCY/Hour
Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **21.17** Hours

Unit cost: $1.507 /LCY Total job cost: **$15,067**

SCRAPER TEAM WORK

Task description: **Topsoil replacement of mining phases**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-03a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT

COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-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	NA	100	100	NA	NA
Ownership cost/hour:	$143.40	NA	$83.81	$83.81	NA	NA
Operating cost/hour:	$153.53	NA	$66.17	$66.17	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	$0.00	$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	$0.00	$0.00	NA	NA
Operator cost/hour:	$31.26	NA	$41.85	$41.85	NA	NA
Unit Subtotals:	$328.19	NA	$191.83	$191.83	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work:	$328.19	Support:	$383.66	Maint:	$0.00

Total work team cost/hour: **$711.85**

MATERIAL QUANTITIES

Initial volume: 1,389 CCY Swell factor: 1.000
Loose volume: **1,389** LCY

Source of estimated volume: 10" x 75' x 600' strips
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Material weight: 3,400 lbs/LCY
Material description: Sand and gravel - Wet
Rated Payload: 81,600 pounds
Payload Capacity: 24.00 LCY

Scraper Bowl (volume) Basis:

Struck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **24.00** LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction: Site Altitude: 6225 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Loose sand or gravel 10

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: **0.68** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: **0.45** minutes

Total Scraper team cycle time: **2.53** minutes
Adjusted for job conditions: 472.41 LCY/Hour
Selected Number of Scrapers: 1 Scraper(s)
Adjusted single scraper team (unit) hourly production: 472.41 LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: **472.41** LCY/Hour

Unadjusted unit production/hour: 569.17 LCY/Hour
Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **2.94** Hours

Unit cost: $1.507 /LCY Total job cost: **$2,093**

BULLDOZER WORK

Task description: **Grading topsoil in mining phase**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 03B State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-03b
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$83.81	NA
Operating Cost/Hour:	$66.17	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.85	NA

Total unit Cost/Hour: $191.83
Total Fleet Cost/Hour: **$191.83**

MATERIAL QUANTITIES

Initial Volume: 695
Swell factor: 1.215
Loose volume: **844** LCY

Source of estimated volume: Half of transported amount
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 491.9 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,225 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

Job Condition Correction Factor		Source
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:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5908

Adjusted unit production: 290.61 LCY/hr
Adjusted fleet production: **290.61** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.660/LCY

Total job time: **2.91** Hours
Total job cost: **$557**

REVEGETATION WORK

Task description: **Seed mining phases**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-04a
User: ACY

Agency 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
Indian Ricegrass - Native	1.85	5.99	$12.95
Galleta	2.19	7.99	$54.09
Western Wheatgrass - Arriba	2.76	6.97	$22.30
Needle and Thread	3.03	8.00	$125.75
Globemallow, Scarlet (or copper)	0.25	2.83	$33.88
Basin Wildrye - Trailhead	3.03	12.31	$45.60
Totals Seed Mix	13.11	44.09	**$294.57**

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
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

Application

Description	Cost /Acre
	$
Total Mulch Application Cost/Acre	**$0.00**

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: 1.5
Estimated Failure Rate: 40%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $526.57
Cost /Acre*: $526.57

Initial Job Cost: **$789.86**
Reseeding Job Cost: **$315.94**
Total Job Cost: **$1,106**
Job Hours: **8.00**

REVEGETATION WORK

Task description: **Seed roads, pond and operating areas**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 04B State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-04v
User: ACY

Agency 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
Indian Ricegrass - Native	1.85	5.99	$12.95
Galleta	2.19	7.99	$54.09
Western Wheatgrass - Arriba	2.76	6.97	$22.30
Needle and Thread	3.03	8.00	$125.75
Globemallow, Scarlet (or copper)	0.25	2.83	$33.88
Basin Wildrye - Trailhead	3.03	12.31	$45.60
Totals Seed Mix	13.11	44.09	**$294.57**

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
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

Application

Description	Cost /Acre
	$
Total Mulch Application Cost/Acre	**$0.00**

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
Estimated Failure Rate: 40%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $526.57
Cost /Acre*: $526.57

Initial Job Cost: **$526.57**
Reseeding Job Cost: **$210.63**
Total Job Cost: **$737**
Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Initial Mobilization**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-05a
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:	$16.63	$18.37	$22.33
Operating Cost/Hour:	$44.38	$46.13	$50.07
Operator Cost/Hour:	$27.66	$27.66	$27.66
Helper Cost/Hour:	$0.00	$25.39	$25.39
Total Unit Cost/Hour:	$88.67	$117.55	$125.45

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 637G	57.28	$143.40	$125.45	1	$268.85	$125.45	$250.00
Cat D8T - 8SU	53.08	$91.36	$125.45	1	$216.81	$125.45	$250.00
Drill/Broadcast Seeder with Tractor	25.00	$12.22	$88.67	1	$100.89	$88.67	$250.00
Subtotals:					**$586.55**	**$339.57**	**$750.00**

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.	$40.24	1	$40.24	$40.24
Subtotals:			**$40.24**	**$40.24**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	52.00	miles
Average Travel Speed:	55.00	mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$4,424.31
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$76.09

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time:	**5.78**	Hours
Total job cost:	**$4,500**	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Secondary Mobilization**

Site: **West Side Placer** Permit Action: CN-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 05B State: Colorado Abbreviation: None
Date: 5/2/2017 County: Moffat Filename: M081-05b
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:	$16.63	$18.37	$22.33
Operating Cost/Hour:	$44.38	$46.13	$50.07
Operator Cost/Hour:	$27.66	$27.66	$27.66
Helper Cost/Hour:	$0.00	$25.39	$25.39
Total Unit Cost/Hour:	$88.67	$117.55	$125.45

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	$12.22	$88.67	1	$100.89	$88.67	$250.00
Subtotals:					**$100.89**	**$88.67**	**$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, 3/4 T.	$40.24	1	$40.24	$40.24
Subtotals:			**$40.24**	**$40.24**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	52.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$1,060.22	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$76.09	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time:	**5.78**	Hours
Total job cost:	**$1,136**	