



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

1313 Sherman Street, Room 215
Denver, CO 80203

August 29, 2019

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

RE: West Side Placer, Permit No. M-2016-081, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Freedman:

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 \$51,740. This is an increase of \$12,580 over the \$39,160 currently held by the Division. This estimate is based on conditions observed during the July 18, 2019 inspection. ***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 **Monday, October 28, 2019**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Gabriel Benvenuti 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 Gabriel Benvenuti.

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 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us



Sincerely,

A handwritten signature in blue ink that reads "Amy Yeldell". The signature is written in a cursive, flowing style.

Amy Yeldell
Environmental Protection Specialist

Ec:
Travis Marshall, Senior EPS, Grand Junction DRMS
Steve Freese, SLB

COST SUMMARY WORK

Task description: 2019 inspection update

Site: West Side Placer

Permit Action: 2019-07

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 8/29/2019

County: Moffat

Filename: M081-000

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	\$2,096
02a	Demo Rapid Thickener Pillars	DEMOLISH	1	4.00	\$53
03a	Regrading Pond (1x)	DOZER	1	1.77	\$402
04a	Overburden replacement and grading of mining phases	SCRAPER1	1	21.17	\$17,615
04b	Topsoil replacement of mining phases	SCRAPER1	1	2.94	\$2,447
05a	Grading in mining phase	DOZER	1	2.91	\$661
05b	Ripping compacted areas	RIPPER	1	9.35	\$2,302
06a	Seed mining phases	REVEGE	1	14.00	\$7,918
07a	Initial Mobilization	MOBILIZE	1	5.78	\$4,749
07b	Secondary Mobilization	MOBILIZE	1	5.78	\$1,037
<u>SUBTOTALS:</u>				71.7	\$39,280

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$793

Performance bond: 1.05

Total = \$412

Job superintendent: 35.85

Total = \$2,488

Profit: 10.00

Total = \$3,928

TOTAL O & P = \$7,622

CONTRACT AMOUNT (direct + O & P) = \$46,902

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,993

Reclamation management and/or administration: 5.00

\$2,345

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$12,460

TOTAL BOND AMOUNT (direct + indirect) = \$51,740

BOREHOLE SEALING WORK

Task description: Plug water well

Site: West Side Placer

Permit Action: 2019-07

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 8/29/2019

County: Moffat

Filename: M-081-01a

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	\$6.88	\$2,028.13
Plug upper portion of well	Portland cement grout - 10 in. (labor, equip, materials)	8.625	5	5.00	LF	\$7.14	\$35.72
Marker	Borehole location/identification marker (EA, material cost only)	8.625	1	1.00	EA	\$32.00	\$32.00

Job Hours: 4.00

Total Cost: \$2,096.00

DEMOLITION WORK

Task description: Demo Rapid Thickener Pillars

Site: West Side Placer

Permit Action: 2019-07

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 8/29/2019

County: Moffat

Filename: M081-02a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
6 Pillars	12"D x 6'L	Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing	18.00	LF	\$3.06	\$55.08

Job Hours: 4.00

Subtotal
(unadjusted): \$55.08

Total Cost
(adjusted for
location): \$52.60

BULLDOZER WORKTask description: **Regrading Pond (1x)**Site: **West Side Placer**Permit Action: **2019-07**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **8/29/2019**County: **Moffat**Filename: **M081-03a**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:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.24	NA

Total unit Cost/Hour: **\$227.36**Total Fleet Cost/Hour: **\$227.36****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**

		<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:	0.700	(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: \$0.427/LCY

Total job time: **1.77** Hours

Total job cost: **\$402**

SCRAPER TEAM WORKTask description: Overburden replacement and grading of mining phasesSite: West Side PlacerPermit Action: 2019-07Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 8/29/2019County: MoffatFilename: M081-04aUser: ACYAgency 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:	\$162.02	NA	\$103.86	\$103.86	NA	NA
Operating cost/hour:	\$184.64	NA	\$82.26	\$82.26	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:	\$30.86	NA	\$41.24	\$41.24	NA	NA
Unit Subtotals:	\$377.52	NA	\$227.36	\$227.36	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work: \$377.52		Support: \$454.72		Maint:	\$0.00

Total work team cost/hour: **\$832.24****MATERIAL QUANTITIES**Initial volume: 9,999

CCY

Swell factor: 1.000Loose volume: **9,999**

LCY

Source of estimated volume: 72" x 75' x 600' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

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

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 MinutesManeuver and Spread Time: 0.60 MinutesJob 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 10Haul 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 minutesReturn 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 minutesTotal Scraper team cycle time: 2.53 minutesAdjusted for job conditions: 472.41 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 472.41 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 472.41 LCY/HourUnadjusted unit production/hour: 569.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 21.17 HoursUnit cost: \$1.762 /LCYTotal job cost: \$17,615

SCRAPER TEAM WORKTask description: Topsoil replacement of mining phasesSite: West Side PlacerPermit Action: 2019-07Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 8/29/2019County: MoffatFilename: M081-04bUser: ACYAgency 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:	\$162.02	NA	\$103.86	\$103.86	NA	NA
Operating cost/hour:	\$184.64	NA	\$82.26	\$82.26	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:	\$30.86	NA	\$41.24	\$41.24	NA	NA
Unit Subtotals:	\$377.52	NA	\$227.36	\$227.36	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work: \$377.52		Support: \$454.72		Maint:	\$0.00

Total work team cost/hour: **\$832.24****MATERIAL QUANTITIES**Initial volume: 1,389

CCY

Swell factor: 1.000Loose volume: 1,389

LCY

Source of estimated volume: 10" x 75' x 600' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

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

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 MinutesManeuver and Spread Time: 0.60 MinutesJob 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 10Haul 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 minutesReturn 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 minutesTotal Scraper team cycle time: 2.53 minutesAdjusted for job conditions: 472.41 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 472.41 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 472.41 LCY/HourUnadjusted unit production/hour: 569.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 2.94 HoursUnit cost: \$1.762 /LCYTotal job cost: \$2,447

BULLDOZER WORKTask description: Grading in mining phaseSite: West Side PlacerPermit Action: 2019-07Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 8/29/2019County: MoffatFilename: M081-05aUser: 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:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.24	NA

Total unit Cost/Hour: \$227.36Total Fleet Cost/Hour: \$227.36**MATERIAL QUANTITIES**Initial Volume: 695Swell factor: 1.215Loose volume: 844 LCYSource of estimated volume: Half of transported amountSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,225 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:	0.600	(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: \$0.782/LCY

Total job time: **2.91** Hours

Total job cost: **\$661**

BULLDOZER RIPPING WORK

Task description: Ripping compacted areas

Site: West Side Placer Permit Action: 2019-07 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 05B State: Colorado Abbreviation: None
Date: 8/29/2019 County: Moffat Filename: M081-05b
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper Ownership Cost/Hour:	\$10.43	NA
Ripper Operating Cost/Hour:	\$8.38	100
Operator Cost/Hour:	\$41.24	NA
Total Unit Cost/Hour:	\$246.17	
Total Fleet Cost/Hour:	\$246.17	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 6.00 acres Rip Depth (ft): 2.00 Volume: 19,360 BCY or CCY

Source of estimated quantity: Staff estimates, 2018 annual report

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 200.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.773 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.773 Acres/hr
Site Altitude: 6,225 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.64 Acres/hr
Adjusted Hourly Fleet Production: **0.64** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **9.35** Hours

Unit cost: \$383.620 Per acre Total job cost: **\$2,302**

REVEGETATION WORKTask description: Seed mining phasesSite: West Side PlacerPermit Action: 2019-07Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 8/29/2019County: MoffatFilename: M081-06aUser: 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
	\$
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	\$12.03
Galleta	2.19	7.99	\$48.95
Western Wheatgrass - Arriba	2.76	6.97	\$17.94
Needle and Thread	3.03	8.00	\$126.81
Globemallow, Scarlet (or copper)	0.25	2.83	\$33.88
Basin Wildrye - Trailhead	3.03	12.31	\$46.69
Totals Seed Mix	13.11	44.09	\$286.28

Application

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	\$2.74	\$2.74
Total Mulch Materials Cost/Acre				\$2.74

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$71.50

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:	9.9	Cost /Acre:	\$592.52
Estimated Failure Rate:	40%	Cost /Acre*:	\$518.28
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	\$5,865.95		
Reseeding Job Cost:	\$2,052.39		
Total Job Cost:	\$7,918		
Job Hours:	14.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **West Side Placer**Permit Action: **2019-07**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **8/29/2019**County: **Moffat**Filename: **M081-07a**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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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	\$162.02	\$141.54	1	\$303.56	\$141.54	\$250.00
Cat D8T - 8SU	53.08	\$114.29	\$141.54	1	\$255.83	\$141.54	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00
Subtotals:					\$644.93	\$350.47	\$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.	\$40.61	1	\$40.61	\$40.61
Subtotals:			\$40.61	\$40.61

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 * \$4,672.07
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$76.79
 ** one round trip, no haul rig:

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: \$4,749

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: West Side PlacerPermit Action: 2019-07Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 07BState: ColoradoAbbreviation: NoneDate: 8/29/2019County: MoffatFilename: M081-07bUser: 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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00

Subtotals: **\$85.54** **\$67.39** **\$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.	\$40.61	1	\$40.61	\$40.61

Subtotals: **\$40.61** **\$40.61**

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 * \$960.26

* two round trips with haul rig:

Total Roadable Mob/Demob Cost ** \$76.79
 ** one round trip, no haul rig:

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: \$1,037

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY
Department of Natural Resources

1313 Sherman St., Room 215
Denver, Colorado 80203
Phone: (303) 866-3567
FAX: (303) 832-8106

West Side Placer M-2016-081
2019 Bond Update (7-18-19 inspected)



- 01a - Plug well - No changes
- 02a - Demo Rapid thickener - No changes
- 03a - Regrade Settling Pond x1 - No changes
- 04a - Overburden replacement - No changes
- 04b - Topsoil replacement - No changes
- 05a - Site grading - No changes
- 05b - Ripping ~6ac previously worked area used for Storage + now highly compacted
- 06a - Reveg entire 9.9ac site, no concurrent reclamation + weed spraying
- 07a - Initial mobilization - No changes
- 07b - Secondary mobilization - No changes

SI-1 → \$12,580 increase
↳ Seeding all at the end
↳ Phase 2 of 4 CIRCES Cost update

TR-1 \$39,160 2018
2019-07 \$51,740