

COST SUMMARY WORK

Task description: _____

Site: **Haldorson Sand and Gravel**
Mine

Permit Action: _____
2017 March

Permit/Job#: M2003037

PROJECT IDENTIFICATION

Task #: 000
Date: 3/30/2017
User: DMC

State: Colorado
County: Montrose

Abbreviation: None
Filename: M037-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo concrete / asphalt plant pads / pylons	DEMOLISH	1	24.00	\$3,160.48
02a	Establish 3H:1V pit slopes	SCRAPER1	1	78.74	\$121,266.00
02b	Final slope grading to 3H:1V	DOZER	2	12.35	\$5,105.00
03a	Spread overburden on pit floor	SCRAPER1	1	14.87	\$25,272.00
04a	Replace 8" topsoil over disturbed area	SCRAPER1	1	16.96	\$25,524.00
05a	Revegetate slopes	REVEGE	1	22.50	\$19,559.00
06a	Establish crop on pit floor	REVEGE	1	30.00	\$22,835.00
07a	Mobilize equipment	MOBILIZE	1	2.57	\$9,869.00
<u>SUBTOTALS:</u>				201.99	\$232,590

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,698.32
Performance bond:	1.05	Total =	\$2,442.20
Job superintendent:	100.99	Total =	\$7,377.32
Profit:	10.00	Total =	\$23,259.00

TOTAL O & P = \$37,776.84

CONTRACT AMOUNT (direct + O & P) = \$270,366.84

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0.00
Reclamation management and/or administration:	5.00		\$13,518.34

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$51,795.18

TOTAL BOND AMOUNT (direct + indirect) = \$284,385.18

DEMOLITION WORK

Task description: Demo concrete / asphalt plant pads / pylons

Haldorson Sand and Gravel
Site: Mine

Permit Action:
2017 March

Permit/Job#: M2003037

PROJECT IDENTIFICATION

Task #: 01A
Date: 3/30/2017
User: DMC

State: Colorado
County: Montrose

Abbreviation: None
Filename: M037-01a

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
concrete pad	15 X 17	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	255.00	SF	\$1.22	\$311.36
concrete pad	20 X 10	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	200.00	SF	\$1.22	\$244.20
concrete pad	14 X 13	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	182.00	SF	\$1.22	\$222.22
concrete peers	6' X 30"	Pipe, reinforced concrete (RCP) - 30 in. diameter pipe	72.00	LF	\$24.91	\$1,793.81
concrete secondary containment	20' X 50'	Demo. and on-site disposal in excavated pit, 6 in. thick - Max. 50 ft. push	1,000.00	SF	\$0.69	\$690.00

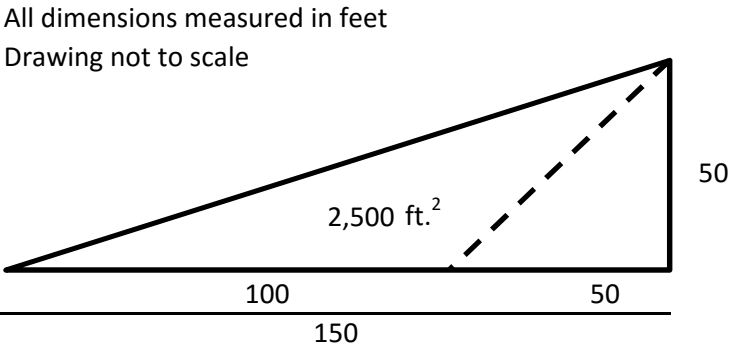
Job Hours: 24.00

Subtotal
(unadjusted): \$3,261.59

Total Cost
(adjusted for location): \$3,160.48

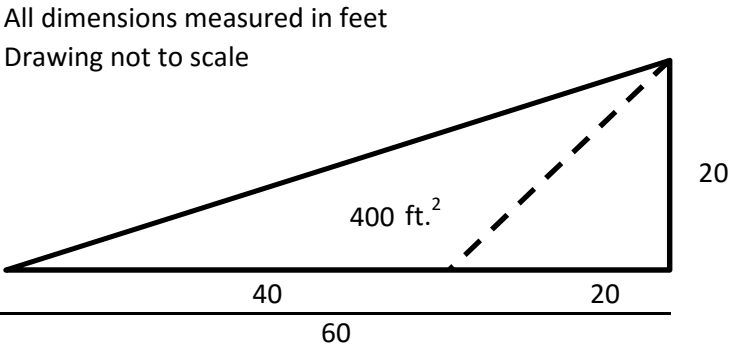
Highwall reduction - backfill

Highwall Height (ft.)	50.00	
Length of Highwall (lft.)	1400.00	
- - - - Initial Slope	1.00	H:1V
———— Desired Slope	3.00	H:1V
Volume of material to be moved (ft. ³)	3,500,000	
Volume of material to be moved (yd. ³)	129,630	



Highwall reduction - backfill

Highwall Height (ft.)	20.00	
Length of Highwall (lft.)	2800.00	
- - - - Initial Slope	1.00	H:1V
———— Desired Slope	3.00	H:1V
Volume of material to be moved (ft. ³)		
1,120,000		
Volume of material to be moved (yd. ³)		
41,481		



SCRAPER TEAM WORKTask description: **Establish 3H:1V pit slopes**Site: **Haldorson Sand and Gravel**
MinePermit Action:
2017 MarchPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 02A
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M200303702aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 3,500 Gal.

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	100	NA	100
Ownership cost/hour:	\$143.40	NA	NA	\$83.81	NA	\$11.45
Operating cost/hour:	\$153.53	NA	NA	\$66.17	NA	\$24.04
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Operator cost/hour:	\$31.26	NA	NA	\$41.85	NA	\$0.00
Unit Subtotals:	\$328.19	NA	NA	\$191.83	NA	\$35.49
Number of Units:	4	0	0	1	0	1
Group Subtotals:	Work: \$1,312.76		Support: \$191.83		Maint:	\$35.49

Total work team cost/hour: **\$1,540.08****MATERIAL QUANTITIES**Initial volume: 170,841

CCY

Swell factor: 1.250Loose volume: **213,551**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**Material weight: 2,550 lbs/LCY
Material description: Earth - Dry packed
Rated Payload: 81,600 pounds
Payload Capacity: 32.00 LCYStruck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **29.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 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: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.39

Haul Time: 0.39 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.34

Return Time: 0.34 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 678.03 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,712.11 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,712.11 LCY/HourUnadjusted unit production/hour: 816.90 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 78.74 HoursUnit cost: \$0.568 /LCYTotal job cost: \$121,266

BULLDOZER WORKTask description: **Final slope grading to 3H:1V**Site: **Haldorson Sand and Gravel**
MinePermit Action:
2017 March

Permit/Job#: M2003037

PROJECT IDENTIFICATIONTask #: 02B
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M200303702b

Agency or organization name: DRMS

HOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$7.55	NA
Ripper op. Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: \$206.59
Total Fleet Cost/Hour: **\$413.17****MATERIAL QUANTITIES**Initial Volume: 8,147
Swell factor: 1.000
Loose volume: **8,147 LCY**Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 90 feet
Unadjusted hourly production: 918.4 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 15 %
Average site altitude: 5,800 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3590

Adjusted unit production: 329.71 LCY/hr

Adjusted fleet production: **659.42** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.627/LCY

Total job time: **12.35** Hours

Total job cost: **\$5,105**

SCRAPER TEAM WORKTask description: **Spread overburden on pit floor**Site: **Haldorson Sand and Gravel**
MinePermit Action:
2017 MarchPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 03A
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M200303703aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 3,500 Gal.

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	100	100	100
Ownership cost/hour:	\$143.40	NA	NA	\$83.81	\$72.40	\$11.45
Operating cost/hour:	\$153.53	NA	NA	\$66.17	\$57.97	\$24.04
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$31.26	NA	NA	\$41.85	\$28.90	\$0.00
Unit Subtotals:	\$328.19	NA	NA	\$191.83	\$159.27	\$35.49
Number of Units:	4	0	0	1	1	1
Group Subtotals:	Work: \$1,312.76		Support: \$191.83		Maint: \$194.76	

Total work team cost/hour: **\$1,699.35****MATERIAL QUANTITIES**Initial volume: 32,267 CCY Swell factor: 1.250
Loose volume: 40,334 LCYSource of estimated volume: Approx. 20 acres currently x 12" depth
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>2,550 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Earth - Dry packed</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>32.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 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: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.39

Haul Time: 0.39 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.34

Return Time: 0.34 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 678.03 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,712.11 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,712.11 LCY/HourUnadjusted unit production/hour: 816.90 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 14.87 HoursUnit cost: \$0.627 /LCYTotal job cost: \$25,272

SCRAPER TEAM WORKTask description: **Replace 8" topsoil over disturbed area**Site: **Haldorson Sand and Gravel**
MinePermit Action:
2017 MarchPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 04A
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M200303704aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
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	NA	NA	100	NA	NA
Ownership cost/hour:	\$143.40	NA	NA	\$83.81	NA	NA
Operating cost/hour:	\$153.53	NA	NA	\$66.17	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Operator cost/hour:	\$31.26	NA	NA	\$41.85	NA	NA
Unit Subtotals:	\$328.19	NA	NA	\$191.83	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$1,312.76		Support: \$191.83		Maint:	\$0.00

Total work team cost/hour: **\$1,504.59****MATERIAL QUANTITIES**Initial volume: 40,000

CCY

Swell factor: 1.000Loose volume: **40,000**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**Material weight: 1,600 lbs/LCY
Material description: Top Soil
Rated Payload: 81,600 pounds
Payload Capacity: 51.00 LCYStruck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **29.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 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: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.36

Haul Time: 0.36 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	850.00	0.00	5.00	5.00	2795	0.46
2	650.00	0.00	5.00	5.00	2795	0.23

Return Time: 0.69 minutesTotal Scraper team cycle time: 2.45 minutesAdjusted for job conditions: 589.47 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,357.88 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,357.88 LCY/HourUnadjusted unit production/hour: 710.20 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 16.96 HoursUnit cost: \$0.638 /LCYTotal job cost: \$25,524

REVEGETATION WORKTask description: Revegetate slopesSite: Haldorson Sand and Gravel
MinePermit Action: 2017 MarchPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 05A
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M037-05aAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.27	\$54.00
			Total Fertilizer Materials Cost/Acre	\$54.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$144.62
Total Fertilizer Application Cost/Acre	\$144.62

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.00	9.71	\$29.25
Bottlebrush Squirreltail	0.50	2.20	\$11.75
Galleta	3.00	10.95	\$74.10
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Saltbush, Four Wing	0.50	0.69	\$6.25
Saltbush, Shadscale	0.50	0.75	\$5.00
Winter Fat	0.50	1.27	\$10.25
Totals Seed Mix	8.50	33.02	\$168.75

Application

Description	Cost /Acre
	\$0.00
Total Seed Application Cost/Acre	\$0.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.16	\$7.16
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$261.00	\$391.50
Total Mulch Materials Cost/Acre				\$398.66

Application

Description	Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)	\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$170.82

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: 15 Cost /Acre: \$1,043.14
 Estimated Failure Rate: 25% Cost /Acre*: \$1,043.14
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$15,647.10**
 Reseeding Job Cost: **\$3,911.78**
 Total Job Cost: **\$19,559**
 Job Hours: **22.50**

REVEGETATION WORKTask description: Establish crop on pit floorSite: Haldorson Sand and Gravel
MinePermit Action: 2017 MarchPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 06A
Date: 3/30/2017
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M037-06aAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.27	\$54.00
			Total Fertilizer Materials Cost/Acre	\$54.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$144.62
Total Fertilizer Application Cost/Acre	\$144.62

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Ranger (inoculated)	15.00	72.31	\$39.00
Totals Seed Mix	15.00	72.31	\$39.00

Application

Description	Cost /Acre
	\$0.00
Total Seed Application Cost/Acre	\$0.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$261.00	\$391.50
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.16	\$7.16
Total Mulch Materials Cost/Acre				\$398.66

Application

Description	Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)	\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$170.82

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: 20 Cost /Acre: \$913.39
 Estimated Failure Rate: 25% Cost /Acre*: \$913.39
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$18,267.80**
 Reseeding Job Cost: **\$4,566.95**
 Total Job Cost: **\$22,835**
 Job Hours: **30.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize equipment**Site: **Haldorson Sand and Gravel**
MinePermit Action:
2017 MarchPermit/Job#: **M2003037****PROJECT IDENTIFICATION**Task #: **07A**
Date: **3/30/2017**
User: **DMC**State: **Colorado**
County: **Montrose**Abbreviation: **None**
Filename: **M037-07a**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 D8T - 8SU	47.71	\$83.81	\$117.55	2	\$402.72	\$235.10	\$500.00
CAT 16M	28.73	\$72.40	\$117.55	1	\$189.95	\$117.55	\$250.00
Cat 637G	57.28	\$143.40	\$125.45	4	\$1,075.40	\$501.80	\$1,000.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
Cat 320D L 9'-6" Stick	23.70	\$31.02	\$88.67	1	\$119.69	\$88.67	\$250.00

Subtotals: **\$1,984.35** **\$1,120.46** **\$2,500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$35.49	1	\$35.49	\$35.49
Light Duty Pickup, 4x4, 3/4 T.	\$12.26	1	\$12.26	\$12.26

Subtotals: **\$47.75** **\$47.75**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: MONTROSE
 Total one-way travel distance: 5.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$9,855.79
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$13.64
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$9,869

10/2016

Google earth

6175 Rd

6200 Rd

2000 ft

N

