



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

July 1, 2021

Kimberly Dennis  
Aggregate Industries – WCR, Inc.  
1687 Cole Blvd  
Suite 300  
Golden, CO 80401

**RE: Lyons Quarry, Permit No. M-1977-141, Technical Revision No. 5 (TR-05), Adequacy Review No. 4 – Bond Estimate**

Ms. Dennis:

The Division of Reclamation, Mining and Safety (Division) has calculated the required financial warranty for the reclamation plan proposed in TR-05 (see enclosed). Please review this estimate and provide any comments you might have. If you have no questions or comments and accept the bond estimate as-is, please provide a response stating your acceptance of the estimate.

Given the decision date for TR-05 is currently set for Monday, July 5, 2021, on which, our office will be closed for the Independence Day holiday, we recommend that **by noon on Friday, July 2, 2021**, you either submit a statement of acceptance of the bond estimate or an extension request to the TR-05 decision date.

If you have any questions, you may contact me by telephone at (303) 866-3567, ext. 8129, or by email at [amy.eschberger@state.co.us](mailto:amy.eschberger@state.co.us).

Sincerely,

Amy Eschberger  
Environmental Protection Specialist

Encl: Division's TR-05 bond estimate, dated 7/1/2021

Cc: Travis Snyder, HDR  
Chance Allen, Aggregate Industries - WCR, Inc.  
Tim Cazier, DRMS  
Michael Cunningham, DRMS



## COST SUMMARY WORK

Task description: Cost Summary

Site: Lyons Quarry

Permit Action: TR-5 2021

Permit/Job#: M1977141

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/1/2021

County: Boulder

Filename: M141-000

User: AME

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Project safety plan	NA	0	10.00	\$55,000
002	Erosion control	NA	2	10.00	\$125,000
003	Site survey	NA	0	10.00	\$65,000
004	Debris removal (10 tons/load x 5 loads x \$1,600/load)	NA	2	10.00	\$8,000
005	Excavation & blasting (245,080 cy x \$5.35/cy)	NA	4	480.00	\$1,311,178
006	Fill and compaction (254,695 cy x \$2.20/cy)	NA	4	480.00	\$560,329
007	Scour berm/drainage riprap (20,000 cy x \$28/cy)	NA	3	240.00	\$560,000
008	Final grading (40.35 acres x \$1,000/acre)	NA	3	80.00	\$40,350
009	Rock scaling (144 hours x \$500/hour)	NA	2	160.00	\$72,000
010	Rock reinforcement (20 bolts w/30 ft length x \$7,500/bolt)	NA	1	40.00	\$150,000
011	Install runoff channels (4,120 LF x \$33/LF)	NA	2	40.00	\$135,960
012	Install 24 inch Class V RCP (165 LF x \$550/LF)	NA	1	10.00	\$90,750
013	Soil test plots (4 plots x \$14,901/plot)	NA	1	240.00	\$59,604
014	Replace topsoil on 40.35 acres	SCRAPER1	1	39.43	\$54,286
015	Revegetate 29.25 acres (flatter slopes)	REVEGE	1	29.25	\$77,963
016	Revegetate 11.1 acres (steeper slopes)	REVEGE	1	11.00	\$30,734
017	Import soil growth medium (32,549 cy x \$13/cy)	NA	1	16.00	\$423,137
018	Install perimeter fencing (3,366 LF x \$25/LF)	NA	1	32.00	\$84,150
019	Mobilization/demobilization	NA	13	16.00	\$225,000
020	Revegetate 11.85 acres (Rec Area 2 - TR-4 areas)	REVEGE	1	11.85	\$31,585
021	Replace topsoil on 11.85 acres (Rec Area 2 - TR-4 Areas)	SCRAPER1	1	12.99	\$17,882
<b><u>SUBTOTALS:</u></b>				<b>1978.52</b>	<b>\$4,177,908</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Performance bond: 1.05

Job superintendent: 989.26

Profit: 10.00

Total = \$84,394

Total = \$43,868

Total = \$71,256

Total = \$417,791

TOTAL O & P = \$617,309

CONTRACT AMOUNT (direct + O & P) = \$4,795,217

## LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$203,797</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$239,761</u>

CONTINGENCY:	3.00	Total =	<u>\$125,337</u>
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TOTAL INDIRECT COST =	<u>\$1,186,704</u>
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<b>TOTAL BOND AMOUNT (direct + indirect) =</b>	<b><u>\$5,364,612</u></b>
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**SCRAPER TEAM WORK**Task description: **Replace topsoil on 40.35 acres**Site: **Lyons Quarry**Permit Action: TR-5 2021Permit/Job#: M1977141**PROJECT IDENTIFICATION**Task #: 014State: ColoradoAbbreviation: NoneDate: 7/1/2021County: BoulderFilename: M141-014User: AMEAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D7R DS XR Series II
-Dump Area:	NA
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	100	NA	100	100
Ownership cost/hour:	\$218.34	NA	\$81.02	NA	\$70.80	\$17.15
Operating cost/hour:	\$208.00	NA	\$79.33	NA	\$56.31	\$29.20
%Utilization-ripper:	NA	NA	NA	NA	75	NA
Ripper own. cost/hour:	NA	NA	\$0.00	NA	\$5.52	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	NA	\$3.64	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	NA	\$46.87	\$0.00
Unit Subtotals:	\$473.41	NA	\$200.39	NA	\$183.14	\$46.35
Number of Units:	2	0	1	0	1	1
Group Subtotals:	Work: \$946.82		Support: \$200.39		Maint: \$229.49	

Total work team cost/hour: **\$1,376.70****MATERIAL QUANTITIES**Initial volume: 32,549

CCY

Swell factor: 1.215Loose volume: **39,547**

LCY

Source of estimated volume: 40.35 ac x 6 inch depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</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>51.00 LCY</u>	Adjusted Capacity:	<b><u>29.00</u></b>	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: 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	800.00	10.00	3.00	13.00	710	1.14

Haul Time: 1.14 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-10.00	3.00	-7.00	2972	0.34

Return Time: 0.34 minutesTotal Scraper team cycle time: 2.88 minutesAdjusted for job conditions: 501.46 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,002.92 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,002.92 LCY/HourUnadjusted unit production/hour: 604.17 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 39.43 HoursUnit cost: \$1.373 /LCYTotal job cost: \$54,286

**REVEGETATION WORK**Task description: Revegetate 29.25 acres (flatter slopes)Site: Lyons QuarryPermit Action: TR-5 2021Permit/Job#: M1977141**PROJECT IDENTIFICATION**Task #: 015State: ColoradoAbbreviation: NoneDate: 7/1/2021County: BoulderFilename: M141-015User: AMEAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	909.00	pound	\$0.36	\$327.24
Triple superphosphate, 0-46-0	108.70	pound	\$0.46	\$50.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$377.24</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$38.77
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$38.77</b>

**TILLING**

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
<b>Total Tilling Cost/Acre</b>	<b>\$482.06</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.81	7.23	\$9.32
Aster, Engelman's	0.20	0.95	\$38.80
Blue Grama - Native	0.59	9.63	\$8.10
Canada Wildrye	3.64	9.61	\$39.46
Beeplant, Rocky Mountain	2.12	5.45	\$57.24
Bottlebrush Squirreltail	2.18	9.61	\$35.37
Sandberg Bluegrass - VNS	0.38	8.07	\$3.19
Slender Wheatgrass - San Luis	2.19	7.99	\$9.31
Thickspike Wheatgrass - Critana	2.26	7.99	\$15.54

Rabbitbrush, Rubber	0.61	9.09	\$39.22
Needlegrass, Green - Lodorm	1.54	6.40	\$18.13
Sage, Fringed	0.03	2.51	\$1.23
<b>Totals Seed Mix</b>	16.55	84.53	<b>\$274.90</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**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
<b>Total Mulch Materials Cost/Acre</b>				<b>\$617.02</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$71.57
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
<b>Total Mulch Application Cost/Acre</b>	<b>\$254.73</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 29.25  
 Estimated Failure Rate: 25%  
 \*Selected Replanting Work Items: SEEDING,MULCHING

Cost /Acre: \$2,311.94  
 Cost /Acre\*: \$1,413.87

Initial Job Cost: **\$67,624.25**  
 Reseeding Job Cost: **\$10,338.92**  
 Total Job Cost: **\$77,963**  
 Job Hours: **29.25**

**REVEGETATION WORK**Task description: Revegetate 11.1 acres (steeper slopes)Site: Lyons QuarryPermit Action: TR-5 2021Permit/Job#: M1977141**PROJECT IDENTIFICATION**Task #: 016State: ColoradoAbbreviation: NoneDate: 7/1/2021County: BoulderFilename: M141-016User: AMEAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	909.00	pound	\$0.36	\$327.24
Triple superphosphate, 0-46-0	108.70	pound	\$0.46	\$50.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$377.24</b>

**Application**

Description	Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	\$110.64
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$110.64</b>

**TILLING**

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
<b>Total Tilling Cost/Acre</b>	<b>\$482.06</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.81	7.23	\$9.32
Aster, Engelman's	0.20	0.95	\$38.80
Blue Grama - Native	0.59	9.63	\$8.10
Canada Wildrye	3.64	9.61	\$39.46
Beeplant, Rocky Mountain	2.12	5.45	\$57.24
Bottlebrush Squirreltail	2.18	9.61	\$35.37
Sandberg Bluegrass - VNS	0.38	8.07	\$3.19
Slender Wheatgrass - San Luis	2.19	7.99	\$9.31
Thickspike Wheatgrass - Critana	2.26	7.99	\$15.54



Rabbitbrush, Rubber	0.61	9.09	\$39.22
Needlegrass, Green - Lodorm	1.54	6.40	\$18.13
Sage, Fringed	0.03	2.51	\$1.23
<b>Totals Seed Mix</b>	16.55	84.53	<b>\$274.90</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**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
<b>Total Mulch Materials Cost/Acre</b>				<b>\$617.02</b>

**Application**

Description	Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)	\$96.80
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
<b>Total Mulch Application Cost/Acre</b>	<b>\$279.96</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres:	11.1	Cost /Acre:	\$2,409.04
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,439.10
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	<b>\$26,740.34</b>		
Reseeding Job Cost:	<b>\$3,993.50</b>		
Total Job Cost:	<b>\$30,734</b>		
Job Hours:	<b>11.00</b>		

**REVEGETATION WORK**Task description: Revegetate 11.85 acres (Rec Area 2 - TR-4 areas)Site: Lyons QuarryPermit Action: TR-5 2021Permit/Job#: M1977141**PROJECT IDENTIFICATION**Task #: 020State: ColoradoAbbreviation: NoneDate: 7/1/2021County: BoulderFilename: M141-020User: AMEAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	909.00	pound	\$0.36	\$327.24
Triple superphosphate, 0-46-0	108.70	pound	\$0.46	\$50.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$377.24</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$38.77
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$38.77</b>

**TILLING**

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
<b>Total Tilling Cost/Acre</b>	<b>\$482.06</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.81	7.23	\$9.32
Aster, Engelman's	0.20	0.95	\$38.80
Blue Grama - Native	0.59	9.63	\$8.10
Canada Wildrye	3.64	9.61	\$39.46
Beeplant, Rocky Mountain	2.12	5.45	\$57.24
Bottlebrush Squirreltail	2.18	9.61	\$35.37
Sandberg Bluegrass - VNS	0.38	8.07	\$3.19
Slender Wheatgrass - San Luis	2.19	7.99	\$9.31
Thickspike Wheatgrass - Critana	2.26	7.99	\$15.54

Rabbitbrush, Rubber	0.61	9.09	\$39.22
Needlegrass, Green - Lodorm	1.54	6.40	\$18.13
Sage, Fringed	0.03	2.51	\$1.23
<b>Totals Seed Mix</b>	16.55	84.53	<b>\$274.90</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**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
<b>Total Mulch Materials Cost/Acre</b>				<b>\$617.02</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$71.57
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
<b>Total Mulch Application Cost/Acre</b>	<b>\$254.73</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 11.85                      Cost /Acre: \$2,311.94  
 Estimated Failure Rate: 25%                      Cost /Acre\*: \$1,413.87  
 \*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: **\$27,396.49**  
 Reseeding Job Cost: **\$4,188.59**  
 Total Job Cost: **\$31,585**  
 Job Hours: **11.85**

**SCRAPER TEAM WORK**Task description: **Replace topsoil on 11.85 acres (Rec Area 2 - TR-4 Areas)**Site: **Lyons Quarry**Permit Action: TR-5 2021Permit/Job#: M1977141**PROJECT IDENTIFICATION**Task #: 021State: ColoradoAbbreviation: NoneDate: 7/1/2021County: BoulderFilename: M141-021User: AMEAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D7R DS XR Series II
-Dump Area:	NA
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	100	NA	100	100
Ownership cost/hour:	\$218.34	NA	\$81.02	NA	\$70.80	\$17.15
Operating cost/hour:	\$208.00	NA	\$79.33	NA	\$56.31	\$29.20
%Utilization-ripper:	NA	NA	NA	NA	75	NA
Ripper own. cost/hour:	NA	NA	\$0.00	NA	\$5.52	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	NA	\$3.64	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	NA	\$46.87	\$0.00
Unit Subtotals:	\$473.41	NA	\$200.39	NA	\$183.14	\$46.35
Number of Units:	2	0	1	0	1	1
Group Subtotals:	Work:	\$946.82	Support:	\$200.39	Maint:	\$229.49

Total work team cost/hour: **\$1,376.70****MATERIAL QUANTITIES**Initial volume: 9,560

CCY

Swell factor: 1.215Loose volume: **11,615**

LCY

Source of estimated volume: 11.85 ac x 6 inch depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</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>51.00 LCY</u>	Adjusted Capacity:	<b><u>29.00</u></b>	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: 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	1000.00	10.00	3.00	13.00	710	1.42

Haul Time: 1.42 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-10.00	3.00	-7.00	2972	0.41

Return Time: 0.41 minutesTotal Scraper team cycle time: 3.23 minutesAdjusted for job conditions: 447.12 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 894.24 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 894.24 LCY/HourUnadjusted unit production/hour: 538.70 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 12.99 HoursUnit cost: \$1.540 /LCYTotal job cost: \$17,882