



March 13, 2025

Kevin Peart
Holcim – WCR, Inc.
1687 Cole Blvd. Suite 300
Golden, CO 80401

RE: Daniels Sand Pit 2, Permit No. M-1973-007-SG;
Technical Revision (TR-11) Adequacy Review #2

Dear Mr. Peart,

On March 11, 2025 the Division of Reclamation, Mining and Safety (Division) received your adequacy response letter for TR-11 at the Daniels Sand Pit 2, M-1973-007-SG. The Division has reviewed the above referenced adequacy review response letter and material submitted. The following is a list of the adequacy review items from the Division's first adequacy review. If additional information or revision is required, it will be noted. If an item is resolved, that will be indicated.

1. The map provided on page 99, after Fig. 3 '7 Year Planned Build Out 2' map, is illegible. Please provide a replacement map for this figure. **Resolved.**
2. Have Factor of Safety analyses considered rapid drawn down stability calculations for the embankment? If so, please provide figures which illustrate this analysis. If not, please explain why rapid drawn down is not applicable to this project. **Resolved.**
3. Has the dam raised study evaluated an embankment failure? If so, where, in what quantity, and to what elevation would an embankment failure expect to deposit water and or material? How would a failure impact Academy Blvd. specifically? Please discuss any plans on how the site might mitigate this risk or address it should the embankment fail. **Resolved.**
4. In the initial permitting of this wash fines impoundment, possible effects on the Schlage lock pump & treat system were investigated. This investigation included reporting on possible groundwater mounding impacts to the lock system. It was reported that although possible mounding from the impoundment would increase the rate of flow of contaminated water to the system, that this would not negatively impact the system itself. Please provide information to ensure that the increased capacity of the impoundment will not have negative impacts on the Schlage pump & treat system. **Resolved.**
5. Page 2 of the Dam Raise Study states that the current height of the embankment is 22.5 feet. Page 1 states that the proposed change is a 22.5 foot raise to the embankment. Is the Division correct in interpreting this to mean that the proposed dam raise would create an



embankment with a final height of 45 feet? Please also ensure that all figures included in the Dam Raise Study, specifically the cross sections on Figure 6 match this maximum embankment height. ***Resolved.***

6. Clarify for the Division the sequence of Figures in Appendix A labeled as Fig. 1 -3. Do these figures represent a construction sequence? Why is the extended embankment shown on Fig. 2 but not Fig. 3? ***Resolved.***
7. Currently, water within the wash fines pond impounds to the northeast and fines slurry is deposited into the pond through the western embankment. Will the location of impounding water shift with this embankment raise? If so, will the wash fines discharge point remain on the western embankment, or will this be permanently relocated? ***Resolved.***
8. Where will water collected by the embankment's blanket drain / toe drain be discharged to onsite? ***Resolved.***
9. Will there be any additional height raises to the N, E, or S sides of the wash fines pond? Or will earthwork on these slopes be confined to minimal regrade to meet the required 3:1 slopes? ***Resolved.***
10. Please provide narrative to explain to the Division how the site can ensure that enough material of the classified soil composition assumed in the slope stability analysis and soil strength properties is available onsite to construct the embankment as designed and ensure a high enough FOS. ***Resolved.***
- 11. The Division has calculated an updated reclamation cost estimate for the Daniels Sand Pit 2. This estimate has been provided with this letter. The Division respectfully requests a response from Holcim- WCR, Inc. with any questions regarding the cost estimate or an acceptance of the Division's estimate.**

Please submit your response(s) to the above listed issue(s) by **March 21, 2025** in order to allow the Division sufficient time for review. If you cannot address the above issues by such date, please request an extension to the decision due date in order to ensure adequate time for the Division to review the materials. A decision due date of March 26, 2025 has been set. If any adequacy issues remain by the decision due date the Division may deny your request.

The Division will continue to review your Technical Revision and will contact you if additional information is needed.

If you require additional information, or have questions or concerns, please feel free to contact me at 720-868-7757 or hunter.ridley@state.co.us

Sincerely,
Hunter C. Ridley

Hunter Ridley

Environmental Protection Specialist

CC: Zach Trujillo, DRMS

COST SUMMARY WORK

Task description: _____

Site: Daniels Sand Pit 2

Permit Action: TR11

Permit/Job#: M1973007SG

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/12/2025

County: El Paso

Filename: M007-000

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
E03	Forest/Shrub East Sediment Basin	REVEGE	1	80.00	\$9,499
E16	Backfill Reconstruction-S.side E. Sed basin	SCRAPER1	1	49.47	\$119,507
E17	Backfill Reconstruction-S.side New Sed basin	SCRAPER1	1	32.10	\$77,548
E18	Backfill Reconstruction-S. & SE sides of Sed basin	SCRAPER1	1	48.67	\$111,028
E19	Grade Embankment-W.side E. Sed basin (wash fines pond)	GRADER	1	5.09	\$1,404
P09	Replace TS on Pit Floor	SCRAPER1	1	77.87	\$182,665
P10	Seed Pit Floor	REVEGE	1	220.00	\$81,792
P11	Replace TS on Pit Slopes	SCRAPER1	1	123.52	\$289,757
P12	Seed Pit Slopes	REVEGE	1	200.00	\$91,185
W01	Backfill West Sediment Basin	TRUCK1	1	80.83	\$75,549
W02	Replace TS West Sediment Basin	TRUCK1	1	35.81	\$39,388
W3A	Seed West Sediment Basin	REVEGE	1	40.00	\$12,852
W3B	Forest/Shrub West Sediment Basin	REVEGE	1	40.00	\$4,176
Z99	Mob / Demob Equipment	MOBILIZE	1	1.44	\$9,469
<u>SUBTOTALS:</u>				1034.8	\$1,105,819

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$22,338

Performance bond: 1.05

Total = \$11,611

Job superintendent: 517.40

Total = \$41,014

Profit: 10.00

Total = \$110,582

TOTAL O & P = \$185,545

CONTRACT AMOUNT (direct + O & P) = \$1,291,364

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$54,883

Reclamation management and/or administration: 5.00

\$64,568

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$305,496

TOTAL BOND AMOUNT (direct + indirect) = \$1,411,315

REVEGETATION WORKTask description: Forest/Shrub East Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E03State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E03User: HR1Agency 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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
Totals Nursery Stock Cost / Acre					\$212.50

JOB TIME AND COST

No. of Acres:	29.8	Cost /Acre:	\$212.50
Estimated Failure Rate:	50%	Cost /Acre*:	\$212.50
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$6,332.50
Reseeding Job Cost:	\$3,166.25
Total Job Cost:	\$9,499
Job Hours:	80.00

SCRAPER TEAM WORKTask description: **Backfill Retruction-S.side E. Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E16State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E16User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-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:	\$265.74	NA	NA	\$173.32	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$109.71	NA	NA
%Utilization-ripper:	NA	NA	NA	100	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$14.53	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$7.95	NA	NA
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$345.55	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$345.55		Maint:	\$0.00

Total work team cost/hour: **\$2,415.83****MATERIAL QUANTITIES**Initial volume: 29,973

CCY

Swell factor: 1.266Loose volume: **37,940**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 55,200 pounds
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY
 Heaped Volume: 23.00 LCY
 Average Volume: 20.50 LCY
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 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	2400.00	2.00	5.00	7.00	944	2.60

Haul Time: 2.60 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2400.00	-2.00	5.00	3.00	2666	1.11

Return Time: 1.11 minutesTotal Scraper team cycle time: 5.31 minutesAdjusted for job conditions: 191.74 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 766.96 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 766.96 LCY/HourUnadjusted unit production/hour: 231.01 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 49.47 HoursUnit cost: \$3.150 /LCYTotal job cost: \$119,507

SCRAPER TEAM WORKTask description: **Backfill Retruction-S.side New Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E17State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E17User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-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:	\$265.74	NA	NA	\$173.32	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$109.71	NA	NA
%Utilization-ripper:	NA	NA	NA	100	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$14.53	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$7.95	NA	NA
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$345.55	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$345.55		Maint:	\$0.00

Total work team cost/hour: **\$2,415.83****MATERIAL QUANTITIES**Initial volume: 15,323

CCY

Swell factor: 1.266Loose volume: **19,396**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 55,200 pounds
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY
 Heaped Volume: 23.00 LCY
 Average Volume: 20.50 LCY
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 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	3400.00	2.00	5.00	7.00	944	3.66

Haul Time: 3.66 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3400.00	-2.00	5.00	3.00	2666	1.48

Return Time: 1.48 minutesTotal Scraper team cycle time: 6.74 minutesAdjusted for job conditions: 151.06 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 604.23 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 604.23 LCY/HourUnadjusted unit production/hour: 182.00 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 32.10 HoursUnit cost: \$3.998 /LCYTotal job cost: \$77,548

SCRAPER TEAM WORKTask description: **Backfill Retruction-S. & SE sides of Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E18State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E18User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D6T LGP
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:	\$265.74	NA	NA	\$99.72	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$71.22	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:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$210.98	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$210.98		Maint:	\$0.00

Total work team cost/hour: **\$2,281.26****MATERIAL QUANTITIES**Initial volume: 25,420

CCY

Swell factor: 1.266Loose volume: **32,177**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 55,200 pounds
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY
 Heaped Volume: 23.00 LCY
 Average Volume: 20.50 LCY
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 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	3000.00	2.00	5.00	7.00	944	3.23

Haul Time: 3.23 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	-2.00	5.00	3.00	2666	1.33

Return Time: 1.33 minutesTotal Scraper team cycle time: 6.16 minutesAdjusted for job conditions: 165.28 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 661.13 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 661.13 LCY/HourUnadjusted unit production/hour: 199.13 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 48.67 HoursUnit cost: \$3.451 /LCYTotal job cost: \$111,028

MOTOR GRADER WORK

Task description: Grade Embankment-W.side E. Sed basin (wash fines pond)

Site: Daniels Sand Pit 2

Permit Action: TR11

Permit/Job#: M1973007SG

PROJECT IDENTIFICATION

Task #: E19 State: Colorado Abbreviation: None
Date: 3/12/2025 County: El Paso Filename: E19
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 14M Horsepower: 259
Ripper Attachment: _____ Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$129.81</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$89.13</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$0.00</u>	
Operator Cost/Hour:	<u>\$56.70</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$275.64</u>	
Total Fleet Cost/Hour:	<u>\$275.64</u>	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 10.00 acres

Source of estimated acreage: TR11 Dam Raise Study Grading Map Fig. 5 & Fig. 7

HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Finish grading (0-2.5 mph) - 1.5
Selected Blade Angle: 0 degrees
Effective Blade Length: 14.00 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 12.00 feet
Unadjusted Hourly Unit Production: 2.1818 acres/hour

Job Condition Correction Factors

Site Altitude: 5800 feet

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

Adjusted Hourly Unit Production: 1.9636 acres/Hour
Adjusted Hourly Fleet Production: **1.9636** acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **5.09** Hours

Unit cost: \$140.37 per acre Total job cost: **\$1,404**

SCRAPER TEAM WORKTask description: **Replace TS on Pit Floor**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P09State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P09User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-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	NA	100	NA
Ownership cost/hour:	\$265.74	NA	NA	NA	\$129.81	NA
Operating cost/hour:	\$194.31	NA	NA	NA	\$89.13	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Operator cost/hour:	\$57.52	NA	NA	NA	\$56.70	NA
Unit Subtotals:	\$517.57	NA	NA	NA	\$275.64	NA
Number of Units:	4	0	0	0	1	0
Group Subtotals:	Work: \$2,070.28		Support:	\$0.00	Maint:	\$275.64

Total work team cost/hour: **\$2,345.92****MATERIAL QUANTITIES**Initial volume: 59,209

CCY

Swell factor: 1.215Loose volume: **71,939**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>18.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>23.00</u>	LCY
Rated Payload:	<u>55,200 pounds</u>	Average Volume:	<u>20.50</u>	LCY
Payload Capacity:	<u>34.50 LCY</u>	Adjusted Capacity:	<u>20.50</u>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 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	2100.00	0.00	5.00	5.00	1292	1.70

Haul Time: 1.70 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutesTotal Scraper team cycle time: 4.42 minutesAdjusted for job conditions: 230.97 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 923.89 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 923.89 LCY/HourUnadjusted unit production/hour: 278.28 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 77.87 HoursUnit cost: \$2.539 /LCYTotal job cost: \$182,665

REVEGETATION WORKTask description: Seed Pit FloorSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P10State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P10User: HR1Agency 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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	2.00	17.86	\$26.44
Big Bluestem - Native	4.00	11.94	\$62.43
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Sand Bluestem - Garden Co.	4.00	10.38	\$96.91
Pubescent Wheatgrass - Greenleaf	2.00	4.13	\$9.52
Tall Wheatgrass - Jose	3.00	5.44	\$17.24
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
		78.66	\$240.06

Totals Seed Mix	17.00		
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Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

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: 110.1 Cost /Acre: \$594.31
 Estimated Failure Rate: 25% Cost /Acre*: \$594.31
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$65,433.53**
 Reseeding Job Cost: **\$16,358.38**
 Total Job Cost: **\$81,792**
 Job Hours: **220.00**

SCRAPER TEAM WORKTask description: **Replace TS on Pit Slopes**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P11State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P11User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-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	NA	100	NA
Ownership cost/hour:	\$265.74	NA	NA	NA	\$129.81	NA
Operating cost/hour:	\$194.31	NA	NA	NA	\$89.13	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Operator cost/hour:	\$57.52	NA	NA	NA	\$56.70	NA
Unit Subtotals:	\$517.57	NA	NA	NA	\$275.64	NA
Number of Units:	4	0	0	0	1	0
Group Subtotals:	Work: \$2,070.28		Support:	\$0.00	Maint:	\$275.64

Total work team cost/hour: **\$2,345.92****MATERIAL QUANTITIES**Initial volume: 78,327

CCY

Swell factor: 1.215Loose volume: **95,167**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>18.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>23.00</u>	LCY
Rated Payload:	<u>55,200 pounds</u>	Average Volume:	<u>20.50</u>	LCY
Payload Capacity:	<u>34.50 LCY</u>	Adjusted Capacity:	<u>20.50</u>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 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	2100.00	3.00	5.00	8.00	822	2.58

Haul Time: 2.58 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutesTotal Scraper team cycle time: 5.30 minutesAdjusted for job conditions: 192.62 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 770.49 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 770.49 LCY/HourUnadjusted unit production/hour: 232.08 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 123.52 HoursUnit cost: \$3.045 /LCYTotal job cost: \$289,757

REVEGETATION WORKTask description: Seed Pit SlopesSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P12State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P12User: HR1Agency 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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Native	2.00	5.97	\$31.21
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Little Bluestem - Native	1.00	5.97	\$15.39
Sideoats Grama - Butte	1.00	3.28	\$24.16
Sand Bluestem - Garden Co.	6.00	15.56	\$145.36
Pubescent Wheatgrass - Greenleaf	5.00	10.33	\$23.80
Thickspike Wheatgrass - Critana	5.00	17.68	\$40.74
Western Wheatgrass - Native	3.00	7.58	\$27.02
Prairie Sandreed - Goshen	2.00	12.53	\$34.05

Totals Seed Mix	26.00	104.28	\$361.10
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Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

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:	97.1	Cost /Acre:	\$751.27
Estimated Failure Rate:	25%	Cost /Acre*:	\$751.27
*Selected Replanting Work Items:	TILLING,SEEDING		
Initial Job Cost:	\$72,948.32		
Reseeding Job Cost:	\$18,237.08		
Total Job Cost:	\$91,185		
Job Hours:	200.00		

TRUCK/LOADER TEAM WORKTask description: **Backfill West Sediment Basin**Site: **Daniels Sand Pit 2**Permit Action: **TR11**Permit/Job#: **M1973007SG****PROJECT IDENTIFICATION**Task #: **W01**State: **Colorado**Abbreviation: **None**Date: **3/12/2025**County: **El Paso**Filename: **W01**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

Equipment Description	
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 980H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$108.25	\$69.00	NA	\$173.32	NA	NA
Operating cost/hour:	\$79.54	\$60.57	NA	\$109.71	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$24.82	\$56.84	NA	\$40.04	NA	NA
Unit Subtotals:	\$212.61	\$186.41	NA	\$323.07	NA	NA
Number of Units:	2	1	0	1	0	0
Group Subtotals:	Work: \$611.63		Support: \$323.07		Maint: \$0.00	

Total work team cost/hour: **\$934.70****MATERIAL QUANTITIES**Initial volume: **45,496**

CCY

Swell factor: **1.000**Loose volume: **45,496**

LCY

Source of estimated volume: **AM-3, Exhibit L**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: **2,900**

Pounds/LCY

Description: **Sand and gravel - Dry**Rated Payload: **87,000**

Pounds

Payload Capacity: **30.00**

LCY

Truck Bed (volume) Basis:

Struck Volume:	24.20	LCY
Heaped Volume:	31.40	LCY
Average Volume:	27.80	LCY
Adjusted Volume:	30.00	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 5800 feet

	Truck	Loader	Source
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.797	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Loader Cycle Time:		0.510	minutes
Net Load Time per Truck:		1.630	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.625	Minutes
Truck Load Time:	1.630	Minutes	Adjusted for site altitude:	1.630	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.042	Minutes

Truck Travel (Haul & Return) Time:
penetration 5.0

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	1845	1.141

Haul Time: **1.141** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	3005	0.738

Return Time: **0.738** minutesTotal Truck Cycle Time: **5.176** minutes

Loading Tool unit
 Production 778.27 LCY/Hour Adjusted for job efficiency: 645.96 LCY/Hour
 Truck Unit Production
339.09 LCY/Hour Adjusted for job efficiency: 281.44 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 562.88 LCY/Hour
 Adjusted single truck/loader team production: 562.88 LCY/Hour
 Adjusted multiple truck/loader team production: **562.88** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **80.83** HoursUnit cost: \$1.661 /LCY Total job cost: **\$75,549**

TRUCK/LOADER TEAM WORKTask description: **Replace TS West Sediment Basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: W02State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: W02User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 980H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	NA

Cost Breakdown:**Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	100	NA
Ownership cost/hour:	\$108.25	\$69.00	NA	NA	\$129.81	NA
Operating cost/hour:	\$79.54	\$60.57	NA	NA	\$89.13	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	NA
Operator cost/hour:	\$24.82	\$56.84	NA	NA	\$56.70	NA
Unit Subtotals:	\$212.61	\$186.41	NA	NA	\$275.64	NA
Number of Units:	3	1	0	0	1	0
Group Subtotals:	Work: \$824.24		Support: \$0.00		Maint: \$275.64	

Total work team cost/hour: **\$1,099.88****MATERIAL QUANTITIES**Initial volume: 13,955

CCY

Swell factor: 1.429Loose volume: **19,936**

LCY

Source of estimated volume: AM-3, Exhibits C-2 & LSource of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 87,000

Pounds

Payload Capacity: 54.38

LCY

Truck Bed (volume) Basis:

Struck Volume:	24.20	LCY
Heaped Volume:	31.40	LCY
Average Volume:	27.80	LCY
Adjusted Volume:	31.40	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 5800 feet

	Truck	Loader	Source
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.797	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Loader Cycle Time:		0.510	minutes
Net Load Time per Truck:		1.630	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.625	Minutes
Truck Load Time:	1.630	Minutes	Adjusted for site altitude:	1.630	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.042	Minutes

Truck Travel (Haul & Return) Time:
maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5400.00	0.00	3.00	3.00	3005	2.589

Haul Time: **2.589** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5400.00	0.00	3.00	3.00	3005	1.964

Return Time: **1.964** minutesTotal Truck Cycle Time: **7.850** minutes

Loading Tool unit

Production 778.27 LCY/Hour Adjusted for job efficiency: 645.96 LCY/HourTruck Unit Production 223.58 LCY/Hour Adjusted for job efficiency: 185.57 LCY/HourOptimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 556.71 LCY/Hour
Adjusted single truck/loader team production: 556.71 LCY/Hour
Adjusted multiple truck/loader team production: **556.71** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **35.81** HoursUnit cost: \$1.976 /LCY Total job cost: **\$39,388**

REVEGETATION WORKTask description: Seed West Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: W3AState: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: W3AUser: HR1Agency 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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	2.00	17.86	\$26.44
Big Bluestem - Native	4.00	11.94	\$62.43
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Sand Bluestem - Garden Co.	4.00	10.38	\$96.91
Pubescent Wheatgrass - Greenleaf	2.00	4.13	\$9.52
Tall Wheatgrass - Jose	3.00	5.44	\$17.24
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
		78.66	\$240.06

Totals Seed Mix	17.00		
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Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

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:	17.3	Cost /Acre:	\$594.31
Estimated Failure Rate:	25%	Cost /Acre*:	\$594.31
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$10,281.56
Reseeding Job Cost:	\$2,570.39
Total Job Cost:	\$12,852
Job Hours:	40.00

REVEGETATION WORKTask description: Forest/Shrub West Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: W3BState: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: W3BUser: HR1Agency 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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
Totals Nursery Stock Cost / Acre					\$212.50

JOB TIME AND COST

No. of Acres:	13.1	Cost /Acre:	\$212.50
Estimated Failure Rate:	50%	Cost /Acre*:	\$212.50
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$2,783.75
Reseeding Job Cost:	\$1,391.88
Total Job Cost:	\$4,176
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob / Demob Equipment**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: Z99State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: Z99User: HR1Agency 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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

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	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Cat 623G	41.35	\$265.74	\$122.78	4	\$1,554.08	\$491.12	\$1,000.00
Cat 740	36.49	\$108.25	\$122.78	3	\$693.09	\$368.34	\$750.00
CAT 14M	23.57	\$129.81	\$59.44	1	\$189.25	\$59.44	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00

Subtotals: **\$3,024.76** **\$1,223.90** **\$2,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$9,468.91</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.11</u>	<u>0.11</u>
Return Time (Hours):	<u>0.11</u>	<u>0.11</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>0.72</u>	<u>0.22</u>

JOB TIME AND COST

Total job time: 1.44 Hours

Total job cost: \$9,469