




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Leone Huerfano Gravel Pit	MINE/PROSPECTING ID#: M-2010-004	MINERAL: Gravel and sand	COUNTY: Huerfano
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: July 31, 2024	INSP. TIME: 10:45
OPERATOR: Leone Sand & Gravel LLC	OPERATOR REPRESENTATIVE: Wayne Leone and Brian Brown	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$61,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
INSPECTOR(S): Amber M. Gibson	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 28, 2024

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM: The current mine plan, mining plan map, and reclamation plan need to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI) and C.R.S. 34-32.5-112 (2). The Operator must provide sufficient information to describe or identify how the Operator intends to conduct the operation.

CORRECTIVE ACTIONS: The Operator shall submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved mine plan, mining plan map, reclamation plan, and any other affected exhibits to reflect existing and proposed activities by the corrective action date.

CORRECTIVE ACTION DUE DATE: 10/28/24

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- PB	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / **PB = Problem cited** / PV = Possible violation cited

OBSERVATIONS

The Leone Huerfano Gravel Pit was inspected by Amber Gibson with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of the Division's routine monitoring inspection program. The site was previously inspected by the Division on June 24, 2020, as a routine monitoring inspection. Wayne Leone and Brian Brown (representing the Operator), accompanied me during the inspection. The sky was clear and the weather was hot.

The Leone Huerfano Gravel Pit is located in Huerfano County approximately 11 miles northwest of Walsenburg, Colorado. The entrance to the pit is at the junction of County Road (CR) 611 and CR 611.1. The pit is a 185.67-acre 112c Construction Materials Reclamation Permit with a maximum allowed disturbance of 22.5 acres. The primary commodity being mined at the site is sand and gravel. The approved post-mining land use is rangeland. The mine site was surrounded by the following land uses: rural residential, agricultural, and rangeland.

Availability of Records:

The annual report, map, and fee are paid and current through July 21, 2025. There are no outstanding infractions.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$61,000 for this site. The Division has estimated the reclamation liability at the site based on what is currently disturbed and found it to be \$113,887-- a difference of \$52,887 from the bond currently held. The Division's cost estimate is enclosed with this report. The Operator will have 14 days (**until September 11, 2024**), from the issuance of this report to submit any questions on the cost estimate. If no questions are received, the Division may issue a surety increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

Hydrologic Balance and Sediment Control:

No standing water was observed during the inspection. No signs of run-off leaving the pit were observed. The Operator maintains earthen diversion berms around the pit and processing areas (in compliance with the Operator's mining plan, Storm Water Management Plan, and Spill Prevention, Control, and Countermeasure plan) to prevent excess sediment generated from surface water from leaving the site. The Operator also maintains a buffer between the mining disturbance and the north-slope, located along the northern permit boundary (Photo 1; Maps 1 and 2; Attached Approved Mining Plan Map). The Huerfano River is located downslope, and to the north, of the permit boundary. No signs of disturbance to the hydrologic balance were observed during the inspection.

Gen. Compliance with Mine Plan:

A few problems were identified during the inspection and post-inspection, relating to the currently approved mining plan. It appears that since mining commenced at this site, it has not been conducted in the order nor orientation of the approved phases. The currently approved mining plan states that the site will be mined as an open pit mine consisting of nine phases. The mine plan states that mining would begin in Phase 1, with the processing area to be situated between Phases 1 and 2. From there, phasing would go in numerical order from Phase 2 through Phase 9. Attached to this report is the Approved Mining Plan Map. However, mining appears

to have begun in Phase 3 initially, and has expanded to Phases 2, 6, and 7 (See Maps 1 and 2). The processing area is located in the eastern portion Phase 3, opposed to the currently approved location between Phases 1 and 2.

Additionally, the maximum allowed disturbance is currently limited to 22.5 acres at any time – including haul roads and processing areas. The Division used the Esri Field Maps application to gather measurements for the western and southern extents of the disturbance boundaries and the reclamation boundary (Photos 2-4: Maps 1 and 2). After the inspection, these measurements were synced to ArcOnline and used in combination with recent aerial imagery to calculate area measurements of the disturbance boundaries (see polygons on Map 2). The Division estimates that approximately 35.27 acres are currently disturbed, including approximately 9.22 acres of unreleased reclaimed areas.

The maximum depth of excavation was increased to 40 feet, through the approval of Technical Revision 1 (TR1), from the previously approved 18 foot maximum. Highwalls onsite range from a small section of approximately 6-8' high, 1H:1V slopes to a series of 1H:1V slopes ranging from ~20-40' high (Photos 5-7: Map 2). The highwall/pit heights appear to be in compliance with the currently approved plan, but the highwall length has far exceeded the 400' maximum length approved through TR1. The Division walked the lengths of the highwalls and collected measurements with the Field Maps application, and estimates that the total current highwall length is approximately 1,454 feet (Map 2).

These issues have been collectively **cited as a problem above**. **The Operator shall submit a technical revision to update the mining plan and mining plan maps to reflect the current and anticipated mining operations, the current and anticipated road configurations (see Roads section below), maximum allowed disturbance acreages, and maximum highwall lengths by the corrective action date.**

Roads:

As mentioned in the introduction, the entrance to the pit is at the junction of County Road (CR) 611 and CR 611.1. However, it should be noted that although CR 611.1 is designated as a road, it is more of a two track path that eventually fades into the surrounding landscape. Mining disturbance started to the north of CR 611.1, and has now extended to the south and has crossed over the original road. The road has been re-routed around the pit disturbance (Maps 1 and 2; Photo 4). The currently approved reclamation plan states that CR 611.1 will not be mined, removed, or changed by the [Applicant] (See excerpt from the approved reclamation plan below).

(2) The entire affected area will be reclaimed as rangeland. This use was selected by the landowners as being consistent with the other acreage they own adjacent to the affected area. The landowners do not want the access/haul road reclaimed, as it will provide ingress and egress to the balance of their acreage, and will allow for cattle feeding and round-up. The main road that runs the entire length of the pit from west to east is a Huerfano County Road and it will not be mined or removed from this site the road will be used by the applicant / operator to facilitate the haul in the permitted area. The County Road will not be changed by the applicant.

Additionally, the Operator's map (titled "Exhibit A: San Isabel Elec. Assoc.") depicts a cross section view around CR 611.1, and indicates that pit slopes will begin outside of the north and south boundaries of the road. **This issue is included in the problem cited above**. **Prior to updating the road orientation on the mining plan maps, the Operator shall provide the Division with documentation that indicates that the Operator has permission**

to re-route and mine through the existing County Road 611.1. If the Operator is granted permission by the County, they must also subsequently update the Reclamation Plan narrative and any associated affected maps and/or exhibits. The Division would like to remind the Operator that per the currently approved Reclamation Plan and Reclamation Plan Map, County Road 611.1 will be in its pre-mining location and orientation once reclamation has ceased.

Right of Entry:

During the Division's last inspection's permit review process, the inspector noted that the land had changed ownership and was then owned by the Huerfano County Water Conservancy. At that time, the Operator stated they were aware that the land was under new ownership and the original terms of the lease were still in full force as the lease is auto-renewing. Since the previous inspection, the land is once again under new ownership, and is currently owned by Huerfano River Ranch LLC. When the Operator was asked about the current right of entry agreement, they clarified that again, the original terms of the lease were still in full force as the lease is auto-renewing.

Reclamation Success: Backfilling, Grading, and Revegetation:

The Operator has conducted contemporaneous reclamation throughout the life of the mine. During this inspection, approximately 9.22 acres of the 35.27 currently disturbed acres have been backfilled, graded, and seeded (See Maps 1 and 2; Photo 8). The reclaimed slopes have been graded to a slope flatter than 3H:1V. The Operator has been mining the pit walls while purposefully maintaining a buffer between the disturbance boundary and the permit boundary, as to better facilitate using a cut-fill method to backfill slopes upon reclamation.

The reclaimed slopes have been seeded once, but will be re-seeded later this year to increase the quality and quantity of the desired species. Some vegetation has already begun to grow on the slopes, and appears to already be aiding in slope stabilization (Photo 9).

Support Facilities On-site:

Upon entering the site, the processing area is encountered first. A truck scale, various portable equipment and structures, and product stockpiles (Photo 10) were observed throughout the processing area. As noted in the Division's 2016 and 2020 inspection reports, all above ground fuel storage tanks either had adequate secondary containment or were double walled tanks (Photo 11).

Signs and Markers:

Coordinate points for the permit boundary markers were collected during the Division's 2020 inspection, and were observed during the 2024 inspection. A sign was posted at the entrance to the site -- off of County Road 611 (Photo 12), in compliance with Rule 3.1.12(1).

Topsoil:

Topsoil stockpiles were observed along the western disturbance boundary (Map 2). Topsoil has been stripped and placed outside of the pit boundaries, and out of the way of ongoing mining disturbance, in compliance with Rule 3.1.9(3). Overburden piles were also observed along the northern and southern boundaries of the pit, separated from the topsoil stockpiles, in compliance with Rule 3.1.9(1). Topsoil has been systematically used to reclaim the slopes in the areas of the pit that have been deemed as mined-out. The current stockpiles have volunteer vegetation growing on them and appear stable (Photo 13).

Conclusion:

This concludes the Division's Inspection Report; a few maps displaying topics discussed in the report, and a subset of corresponding photographs that were taken during the time of the inspection, are included below. If you need additional information or have any questions, please contact me by email at amber.gibson@state.co.us or by telephone at (720) 836-0967.

Inspection Contact Address

Frank Leone Jr.
Leone Sand & Gravel LLC
2400 E Main Street
Trinidad, CO 81082

*Enclosures: Currently Approved Mining Plan Map
2024 Reclamation Cost Estimate
Technical Revision Form*

CC: Wayne Leone, Leone Sand & Gravel LLC
Jared Ebert, DRMS

PHOTOGRAPHS



Photo 1: Looking west along the northern boundary fence. The yellow arrow points to the diversion berms. The red arrow points to the location of the Huerfano River.



Photo 2: Looking north along the stockpiled material along the western disturbance boundary.



Photo 3: Standing along the western disturbance boundary, looking southeast at the south-west corner of the pit.



Photo 4: Looking west at the re-routed section of County Road 611.1.



Photo 5: Looking south at highwalls in the open pit.



Photo 6: Looking south at the southern highwall in the open pit. Circled is a 5" x 3" notebook for scale.



Photo 7: Typical section of pit highwalls.



Photo 8: Looking south at the reclaimed slopes.



Photo 9: Looking north-west at the reclaimed slopes with some vegetation starting to grow on them.



Photo 10: Looking north at some product stockpiles and equipment in the processing area.



Photo 11: Double walled and secondarily contained fuel storage.

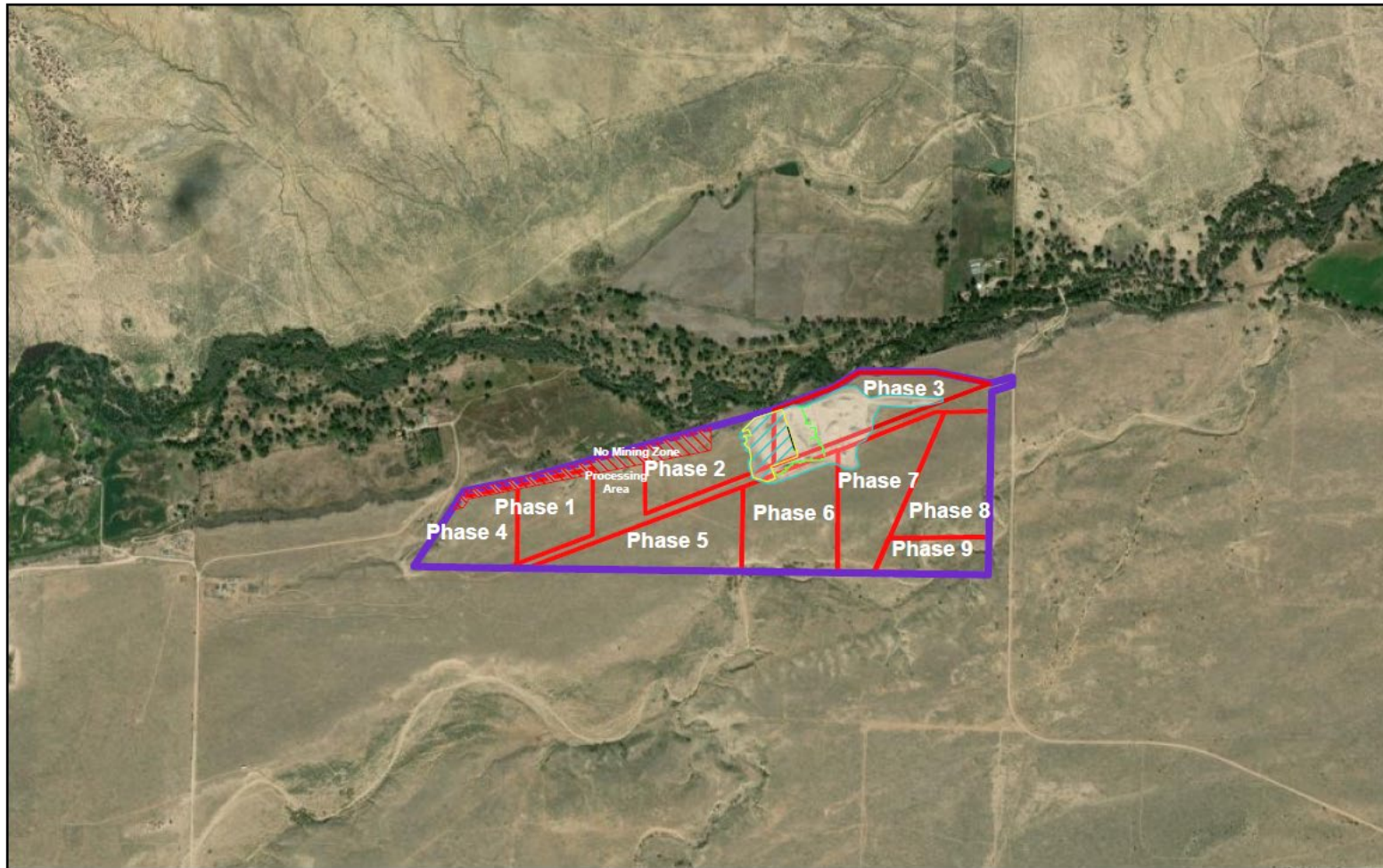


Photo 12: Mine sign posted at the entrance.

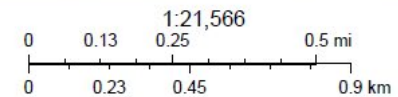


Photo 13: Vegetated topsoil pile.

Inspection Map 2024: Leone Huerfano Gravel Pit, Permit No. M-2010-004

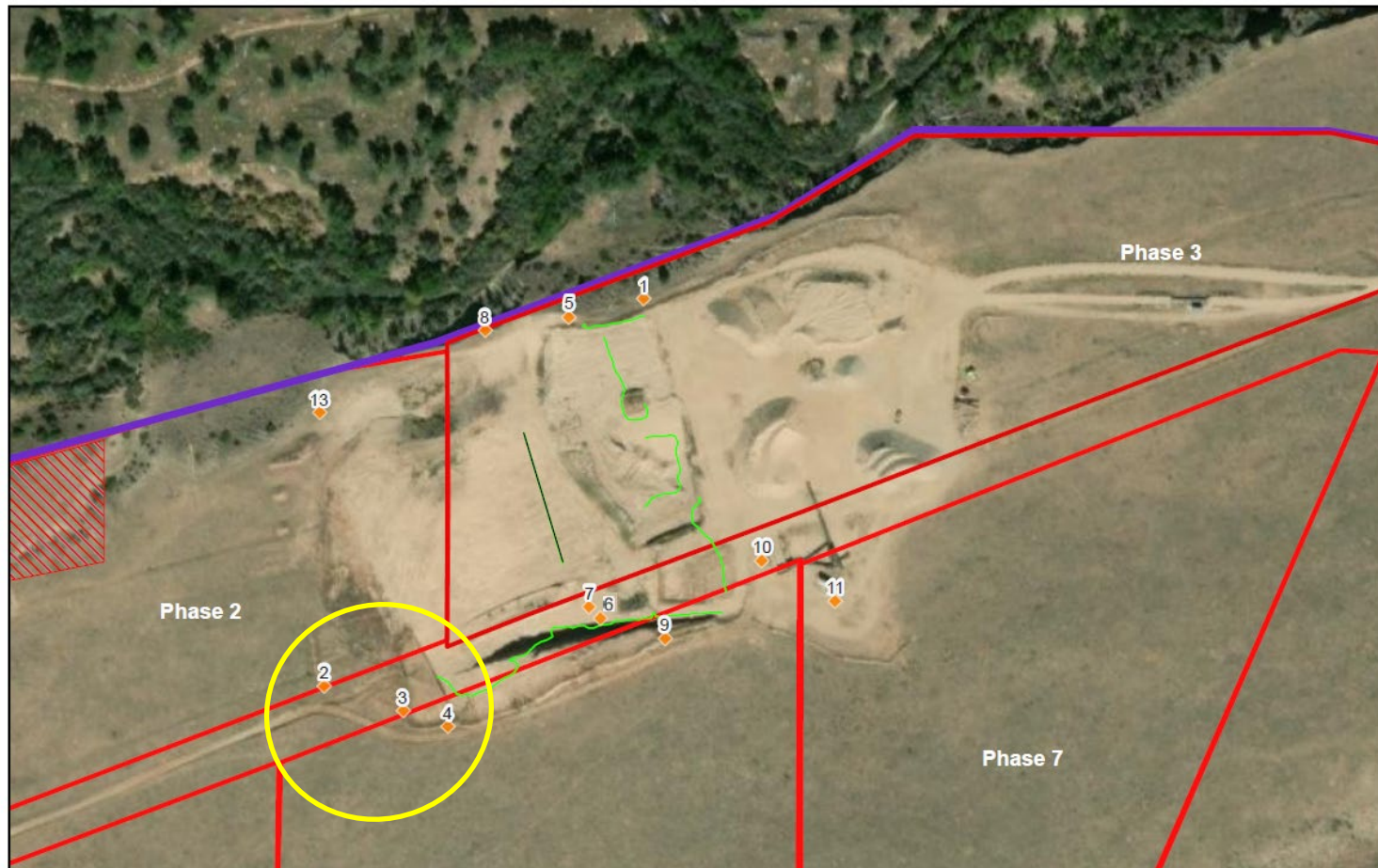


Map created on: 8/27/2024
Map created by: AMG

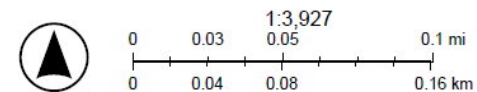


Map 1: Inspection Map generated from data collected in the field, aerial imagery, and the approved maps. The purple line is an approximate representation of the permit boundary, the red lines are approximate phase boundaries, the blue polygon is the disturbance boundary, the blue hatched polygon is the reclaimed disturbance boundary, and the green lines are the highwall measurements taken in the field. The area labeled as a "No Mining Zone" is from the Operator's approved Pre-Mining Plan Map.

Inspection Map 2024: Leone Huerfano Gravel Pit, Permit No. M-2010-004



Map created on: 8/27/2024
Map created by: AMG



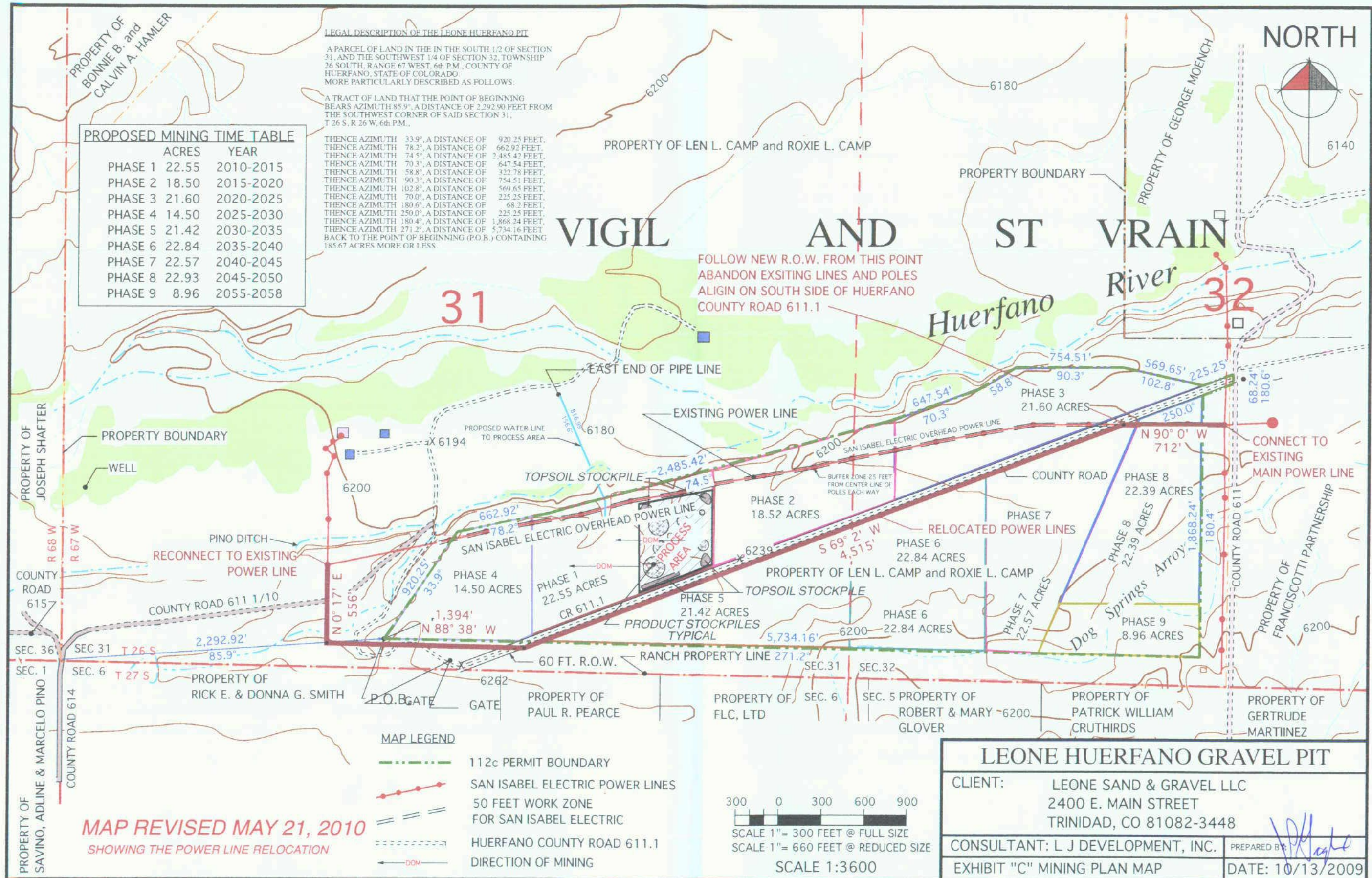
Map 2: Inspection Map generated from data collected in the field, aerial imagery, and the approved maps. The orange diamond icons indicate where the corresponding inspection photos were taken. The black line indicates the eastern boundary of the reclaimed slopes. The yellow circle indicates where County Road 611.1 has been diverted around the disturbance. As with Map 1--the purple line is an approximate representation of the permit boundary, the red lines are approximate phase boundaries, the blue polygon is the disturbance boundary, the blue hatched polygon is the reclaimed boundary, and the green lines are the highwall measurements taken in the field.

	ACRES	YEAR
PHASE 1	22.55	2010-2015
PHASE 2	18.50	2015-2020
PHASE 3	21.60	2020-2025
PHASE 4	14.50	2025-2030
PHASE 5	21.42	2030-2035
PHASE 6	22.84	2035-2040
PHASE 7	22.57	2040-2045
PHASE 8	22.93	2045-2050
PHASE 9	8.96	2055-2058

A PARCEL OF LAND IN THE IN THE SOUTH 1/2 OF SECTION 31, AND THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 26 SOUTH, RANGE 67 WEST, 6th P.M., COUNTY OF HUERFANO, STATE OF COLORADO. MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A TRACT OF LAND THAT THE POINT OF BEGINNING BEARS AZIMUTH 85.9°, A DISTANCE OF 2,292.90 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 31, T 26 S, R 26 W, 6th P.M.,

THENCE AZIMUTH 33.9°, A DISTANCE OF 920.25 FEET,
 THENCE AZIMUTH 78.2°, A DISTANCE OF 662.92 FEET,
 THENCE AZIMUTH 74.5°, A DISTANCE OF 2,485.42 FEET,
 THENCE AZIMUTH 70.3°, A DISTANCE OF 647.54 FEET,
 THENCE AZIMUTH 58.8°, A DISTANCE OF 322.78 FEET,
 THENCE AZIMUTH 90.3°, A DISTANCE OF 754.51 FEET,
 THENCE AZIMUTH 102.8°, A DISTANCE OF 569.65 FEET,
 THENCE AZIMUTH 70.0°, A DISTANCE OF 225.25 FEET,
 THENCE AZIMUTH 180.6°, A DISTANCE OF 68.2 FEET,
 THENCE AZIMUTH 250.0°, A DISTANCE OF 225.25 FEET,
 THENCE AZIMUTH 180.4°, A DISTANCE OF 1,868.24 FEET,
 THENCE AZIMUTH 271.2°, A DISTANCE OF 5,734.16 FEET
 BACK TO THE POINT OF BEGINNING (P.O.B.) CONTAINING
 185.67 ACRES MORE OR LESS.



COST SUMMARY WORK

Task description: Reclamation Cost Summary

Site: Leone Huerfano Gravel Pit

Permit Action: 2024 Inspection

Permit/Job#: M2010004

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/23/2024

County: Huerfano

Filename: M004-000

User: AMG

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade out shorter highwalls to 3H:1V	DOZER	1	0.11	\$23
002	Grade out highwalls to 3H:1V	DOZER	1	25.72	\$5,596
003	Spread Topsoil 6-in over 26.05 acres	DOZER	1	76.91	\$16,710
004	Revegetation of 17 acres	REVEGE	1	27.00	\$57,293
004b	Re-seeding and weed control on 4 acres	REVEGE	1	4.00	\$3,146
005	Mob/Demob	MOBILIZE	1	5.56	\$4,139
<u>SUBTOTALS:</u>				139.3	\$86,907

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,756

Performance bond: 1.05

Total = \$913

Job superintendent: 69.65

Total = \$5,521

Profit: 10.00

Total = \$8,691

TOTAL O & P = \$16,880

CONTRACT AMOUNT (direct + O & P) = \$103,787

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$4,411

Reclamation management and/or administration: 5.00

\$5,189

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$26,980

TOTAL BOND AMOUNT (direct + indirect) = \$113,887

BULLDOZER WORKTask description: **Grade out shorter highwalls to 3H:1V**Site: **Leone Huerfano Gravel Pit**Permit Action: **2024 Inspection**Permit/Job#: **M2010004****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **8/23/2024**County: **Huerfano**Filename: **1**User: **AMG**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$90.24	NA
Operating Cost/Hour:	\$78.95	100
Ripper own.		
Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$0.52	10
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$217.55**Total Fleet Cost/Hour: **\$217.55****MATERIAL QUANTITIES**Initial Volume: **62**Swell factor: **1.124**Loose volume: **70 LCY**Source of estimated volume: **Highwall 118 long x 8' high north side**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,022.9 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-15 %**Average site altitude: **6,200 feet**Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****Job Condition Correction Factor**Operator Skill: **0.750**Source
(AVG.)

Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6377

Adjusted unit
production: 652.30 LCY/hr
Adjusted fleet
production: **652.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.334/LCY

Total job time: **0.11** Hours
Total job cost: **\$23**

BULLDOZER WORKTask description: **Grade out highwalls to 3H:1V**Site: **Leone Huerfano Gravel Pit**Permit Action: **2024 Inspection**Permit/Job#: **M2010004****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **8/23/2024**County: **Huerfano**Filename: **M004-002**User: **AMG**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$90.24	NA
Operating Cost/Hour:	\$78.95	100
Ripper own.		
Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$0.52	10
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$217.55	
Total Fleet Cost/Hour:	\$217.55	

MATERIAL QUANTITIESInitial Volume: **14,933**Swell factor: **1.124**Loose volume: **16,779 LCY**Source of estimated volume: **Highwall 118 long x 8' high north side**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,022.9 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-15 %**Average site altitude: **6,200 feet**Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****Job Condition Correction Factor**Operator Skill: **0.750**Source
(AVG.)

Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6377

Adjusted unit
production: 652.30 LCY/hr
Adjusted fleet
production: **652.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.334/LCY

Total job time: **25.72** Hours
Total job cost: **\$5,596**

BULLDOZER WORKTask description: Spread Topsoil 6-in over 26.05 acresSite: Leone Huerfano Gravel PitPermit Action: 2024 InspectionPermit/Job#: M2010004**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 8/23/2024County: HuerfanoFilename: M004-003User: AMGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS XR Series IIHorsepower: 240Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$90.24</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$78.95</u>	<u>100</u>
Ripper own.		
Cost/Hour:	<u>\$9.25</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.26</u>	<u>5</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$217.29Total Fleet Cost/Hour: \$217.29**MATERIAL QUANTITIES**Initial Volume: 21,014Swell factor: 1.000Loose volume: 21,014 LCYSource of estimated volume: 26.05 acres of 35.27 acre total dist. needs topsoilSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 300 feetUnadjusted hourly production: 311.1 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -5 %Average site altitude: 6,200 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**Operator Skill: 0.750Source
(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:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8783

Adjusted unit
production: 273.24 LCY/hr
Adjusted fleet
production: **273.24** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.795/LCY

Total job time: **76.91** Hours
Total job cost: **\$16,710**

REVEGETATION WORKTask description: **Revegetation of 17 acres**Site: **Leone Huerfano Gravel Pit**Permit Action: 2024 InspectionPermit/Job#: M2010004**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 8/23/2024County: HuerfanoFilename: M004-004User: AMGAgency or organization name: DRMS**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.90	14.69	\$19.19
Indian Ricegrass - Native	0.60	1.94	\$10.38
Little Bluestem - Native	0.40	2.39	\$6.16
Sideoats Grama - Vaughn	1.10	3.61	\$27.05
Galleta	0.20	0.73	\$11.09
Needle and Thread	1.10	2.90	\$89.57
Western Wheatgrass - Native	4.80	12.12	\$43.23
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Totals Seed Mix	9.60	40.46	\$210.98

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Total Mulch Application Cost/Acre	\$242.63

JOB TIME AND COST

No. of Acres:	<u>26.05</u>	Cost /Acre:	<u>\$2,132.22</u>
Estimated Failure Rate:	<u>15%</u>	Cost /Acre*:	<u>\$447.62</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		
Initial Job Cost:	<u>\$55,544.33</u>		
Reseeding Job Cost:	<u>\$1,749.08</u>		
Total Job Cost:	<u>\$57,293</u>		
Job Hours:	<u>27.00</u>		

REVEGETATION WORKTask description: Re-seeding and weed control on 4 acresSite: Leone Huerfano Gravel PitPermit Action: 2024 InspectionPermit/Job#: M2010004**PROJECT IDENTIFICATION**Task #: 004BState: ColoradoAbbreviation: NoneDate: 8/23/2024County: HuerfanoFilename: M004-004bUser: AMGAgency or organization name: DRMS**TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.90	14.69	\$19.19
Indian Ricegrass - Native	0.60	1.94	\$10.38
Little Bluestem - Native	0.40	2.39	\$6.16
Sideoats Grama - Vaughn	1.10	3.61	\$27.05
Galleta	0.20	0.73	\$11.09
Needle and Thread	1.10	2.90	\$89.57
Western Wheatgrass - Native	4.80	12.12	\$43.23
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Totals Seed Mix	9.60	40.46	\$210.98

Application

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

JOB TIME AND COSTNo. of Acres: 4Cost /Acre: \$786.42Estimated Failure Rate: 10%Cost /Acre*: \$0.00*Selected Replanting Work Items: NONEInitial Job Cost: \$3,145.68Reseeding Job Cost: \$0.00Total Job Cost: \$3,146Job Hours: 4.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Leone Huerfano Gravel Pit**Permit Action: 2024 InspectionPermit/Job#: M2010004**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 8/23/2024County: HuerfanoFilename: M004-005User: AMGAgency 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 D7R DS Series II LGP	38.49	\$99.49	\$122.78	1	\$222.27	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
Subtotals:					\$509.84	\$301.10	\$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.	\$97.64	1	\$97.64	\$97.64
Subtotals:			\$97.64	\$97.64

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>PUEBLO</u>	
Total one-way travel distance:	<u>49.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,964.63</u>
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 ** two round trips with haul rig:

Total Roadable Mob/Demob Cost **	<u>\$173.98</u>
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 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.89</u>	<u>0.89</u>
Return Time (Hours):	<u>0.89</u>	<u>0.89</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.78</u>	<u>1.78</u>

JOB TIME AND COST

Total job time:	<u>5.56</u>	Hours
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Total job cost:	<u>\$4,139</u>
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COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- _____ Site Name: _____

County _____ TR# _____ (DRMS Use only)

Permittee: _____

Operator (If Other than Permittee): _____

Permittee Representative: _____

Please provide a brief description of the proposed revision: _____

As defined by the Minerals Rules, a Technical Revision (TR) is: “a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan.” The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered “filed for review” until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	<input type="checkbox"/>
112 hard rock (not DMO)	\$175	<input type="checkbox"/>
110d, 112d(1, 2 or 3)	\$1006	<input type="checkbox"/>