

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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Meadow Hollow Quarry	M-2009-006	Sandstone (silica, stone, quartzite)	Larimer
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Amy Eschberger	January 16, 2020	09:30
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Colorado Quarry I, LLC	Deb Dorband	110c - Construction Limited Impact	

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program	Complete Bond	\$16,000.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Clear	Clary Excherger	January 28, 2020
	Company of the Compan	

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: Financial Warranty

PROBLEM: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) and Rule 4.2.1(1).

CORRECTIVE ACTIONS: The Division has re-evaluated the required financial warranty for reclaiming the site in accordance with the approved reclamation plan (see enclosed cost estimate). On the corrective action date, the Division will send the operator a notice of surety increase for the amount provided in the cost estimate. The operator will have 60 days from the date on the surety increase notice to post the additional financial warranty. If the operator wishes to reduce the required amount, the operator will need to complete reclamation on site and provide evidence to the Division this was done by the corrective action date. Such evidence should include photo documentation and a detailed description of the work that was completed.

CORRECTIVE ACTION DUE DATE: March 28, 2020

OBSERVATIONS

This was a normal monitoring inspection of the Meadow Hollow Quarry (Permit No. M-2009-006) by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). The operator was represented by Deb Dorband during the inspection. The site is located approximately 10.5 miles west of Berthoud, CO in Larimer County, just two miles south of Carter Lake Reservoir. Access to the site is from the east off Co Rd 31. **Photos 1-18** taken during the inspection are included with this report.

This is a 110c operation permitted for 9.9 acres (see enclosed Google Earth image of site) to mine sandstone for building materials (dimension stone and flagstone). The site is situated on the east side of a ridge in Meadow Hollow, approximately 1.5 miles north of the Little Thompson River. The affected lands are owned by Wayne Dorband. A small pre-law quarry (now used for storage) is located directly adjacent to and north of the permit area, on land also owned by Wayne Dorband. Pre-law mining disturbances (extraction areas, overburden/topsoil stockpiles, waste rock stockpiles) also exist within the permit area, primarily in the southern half. Much of these pre-law areas have been redisturbed by the current operation either by continued quarrying, stockpiling, or equipment storage. Approximately 2-18 inches of topsoil/overburden is removed to reach the sandstone deposit. The sandstone deposit is approximately 20-60 feet thick. The sandstone is quarried by front end loaders, excavators, and hand tools. No explosives are used by the operation. The sandstone is processed with hand tools into flagstone, slabs, and blocks, and the remaining material is cut into strip-stone on a stone cutter. Salvaged topsoil and overburden will be incorporated into the work deck, used to reclaim previous disturbances, or stockpiled for future reclamation. No permanent structures will be constructed inside the permit area.

The approved post-mining land use for the site is general agriculture. Disturbed slopes will be graded to 3H:1V or flatter. If steeper slopes are required, the slopes will be stepped into terraces to accomplish the desired stability for the vegetation. The reclaimed slopes are expected to follow the general gradient of surrounding lands. Any waste rock not sold as rip rap will be used as reclamation backfill material. Topsoil will be replaced on disturbed land at a minimum depth of 6 inches. Disturbed land will be broadcast seeded with a grass seed mixture, and planted with Ponderosa Pine and Rocky Mountain Juniper, at 48 seedlings per acre and 12 seedlings per acre respectively. Existing roads will remain for continued use by the landowner.

At the time of the inspection, the weather was clear and dry. A permit sign was posted at the main site entrance. This sign includes four different mine permit numbers, one of which is the correct permit number for the site (M-2009-006), and the others are for permits that have been terminated (M-2006-056, M2006-052, and M-2003-036). It is not clear why the terminated permit numbers are listed on this sign. The Division recommends the operator revise the permit sign to remove or mark out the mine permit numbers that are not applicable to this site. The approved permit boundary was delineated with white posts. The site was not active during the inspection. However, according to annual reports submitted by the operator, the site is active every year (extracting, processing, and/or hauling off from stockpiled material) in accordance with its intermittent status.

The Division estimates approximately 5 acres have been disturbed at this time. The active quarry is located at the center of the permit area. Mining is proceeding in a north/northwestward direction. No highwalls were observed in the quarry area, as the exposed sandstone deposit has a natural slope of approximately 3H:1V or flatter. Numerous rubble piles are scattered throughout the site, the majority of which appears to be waste rock, while some appears to be product. A relatively flat area (work deck) located just south of the quarry is used for processing (cutting) the mined sandstone. A few stacks of cut stone are stored adjacent to the access road. The operator has backfilled, retopsoiled, and seeded the southern portion of the quarry, which the Division estimates to cover approximately 0.4 acres. Vegetative cover of this area is fairly sparse, but consists of grasses, some young pine trees, and weeds. The Division recommends the operator continue to monitor revegetation success in this area and reseed as necessary.

A conex box and temporary office building are present at the eastern edge of the site, adjacent to the access road. A small wooden shed is located at the southern edge of the work deck. The Division did not observe any permanent features (e.g., concrete foundations) associated with these structures. However, if any permanent structures are constructed within the permit area, the operator will need to submit a Technical Revision (see enclosed form) to revise the reclamation plan to address these structures. If any structures are to remain after reclamation, they will need to be shown on an updated reclamation plan map. For any structures that require demolition/removal for reclamation, the financial warranty will need to be updated to include costs for completing this task.

The operator is currently storing piles of wood pallets, empty barrels and other containers, tires, and various non-mining related items in the work deck area and in the pre-law disturbance area below the work deck (in the southeastern portion of the permit area). The Division informed Ms. Dorband during the inspection that all trash and refuse should be handled and disposed of in a manner that will control unsightliness in accordance with Rule 3. 1.5(5). The Division recommends the operator remove any items not associated with the mining operation to a location outside of the permit area. Ms. Dorband indicated they are in the process of relocating these items off site, mainly to the pre-law quarry located outside (and north) of the permit area. If these items are still present on site during the next inspection, the operator may be required to update the mining and reclamation plans to address the storage and reclamation of these items. Accordingly, the required financial warranty would need to be updated to include costs for removing/disposing of any items that will not remain as part of the approved post-mining land use.

Ms. Dorband informed the Division the previous operator of the quarry, John Holliday is no longer involved with the operation. In review of the permit file, the Division found the Performance Warranty and Financial Warranty posted for the permit to be signed by John E. Holliday, as managing member of Colorado Quarry I, LLC. While these warranties remain valid, if Colorado Quarry I, LLC is no longer associated with the operation, the permit may need to be transferred to another entity. This can be done by submitting a Succession of Operators application (see enclosed application). As it stands now, Colorado Quarry I, LLC is responsible for complying with all requirements of the permit, including maintaining an adequate financial warranty and completing final reclamation of the site in accordance with the approved plan.

After conducting the inspection, the Division recalculated the required financial warranty for completing reclamation of the site in accordance with the approved plan (see enclosed bond estimate). This estimate includes costs for grading the waste rock piles in the quarry area and in the two material/equipment storage areas (in the northeastern and southeastern portions of the site) to 3H:1V slopes, for replacing 6 inches of topsoil on disturbed land, and revegetating the land with grasses and trees per the approved revegetation plan. The Division estimates the required financial warranty to be in the amount of \$29,723.00, which is \$13,723.00 more than the currently held financial warranty of \$16,000.00. Therefore, a problem is cited in this report (see page 1) for failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) and Rule 4.2.1(1). A separate notice of surety increase will be sent to the operator in 60 days. If the operator wishes to reduce the required financial warranty, the operator will need to complete reclamation on site and provide evidence to the Division this was done by the corrective action date. Such evidence should include photo documentation and a detailed description of the work that was completed. If the operator submits this information prior to the corrective action date, the required financial warranty will be reassessed and a new estimate provided to the operator.

Any questions or comments regarding this inspection report should be forwarded to Amy Eschberger at the Colorado Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, via telephone at 303-866-3567, ext. 8129, or via email at amy.eschberger@state.co.us.

PHOTOGRAPHS



Photo 1. View looking west from county road, showing entire quarry on side of ridge (in background). Note conex box (blue) stored at eastern edge of quarry.



Photo 2. View of permit sign posted at main site entrance off County Road 31. Note sign lists four different permit numbers, of which, only M-2009-006 is applicable.



Photo 3. View looking west, showing white post marking eastern permit boundary (adjacent to County Road 31).



Photo 4. View looking east across eastern portion of active quarry area.



Photo 5. View looking northeast across eastern edge of active quarry area. Note several rubble piles scattered across area and no highwalls present.



Photo 6. View looking north across center of active quarry area. Note several rubble piles scattered across area and no highwalls present.



Photo 7. View looking west across southern edge of active quarry area. Note several rubble piles scattered across area and no highwalls present.



Photo 8. View looking west across active quarry area. Note several rubble piles scattered across area and no highwalls present.



Photo 9. View looking south across work deck located south of active quarry. Note rubble piles scattered along southern edge of this area.



Photo 10. View looking south across rubble piles lining eastern edge of work deck. Note small shed and refuse pile in background.



Photo 11. View looking southeast across pre-law disturbed area located in southeastern portion of permit area (below work deck).



Photo 12. View looking east across pre-law disturbed area located in southeastern portion of permit area (below work deck), currently used as storage for non-mining related items.



Photo 13. View looking south across work deck located south of active quarry. Note small shed and refuse pile in background.



Photo 14. View looking north across small storage area located east of active quarry, adjacent to main access road.



Photo 15. View of conex box and temporary office present at eastern edge of quarry area. If any structures include permanent features (e.g., concrete foundations), a Technical Revision must be submitted to address reclamation of these structures.



Photo 16. View looking south across small storage area located near main site entrance, adjacent to county road.



Photo 17. View looking south across southern portion of quarry which was backfilled, retopsoiled, and seeded. The operator should continue to monitor revegetation success in this area and reseed if necessary.



Photo 18. View looking west at small pre-law quarry located directly north and outside of permit area. Note white posts (circled) delineating permit boundary around southern edge of this pit.

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

Inspection Contact Address

Wayne Dorband Colorado Quarry I, LLC 901 S CR 31 Berthoud, CO 80513

Encls: Google Earth image of site showing approved permit area

Technical Revision form

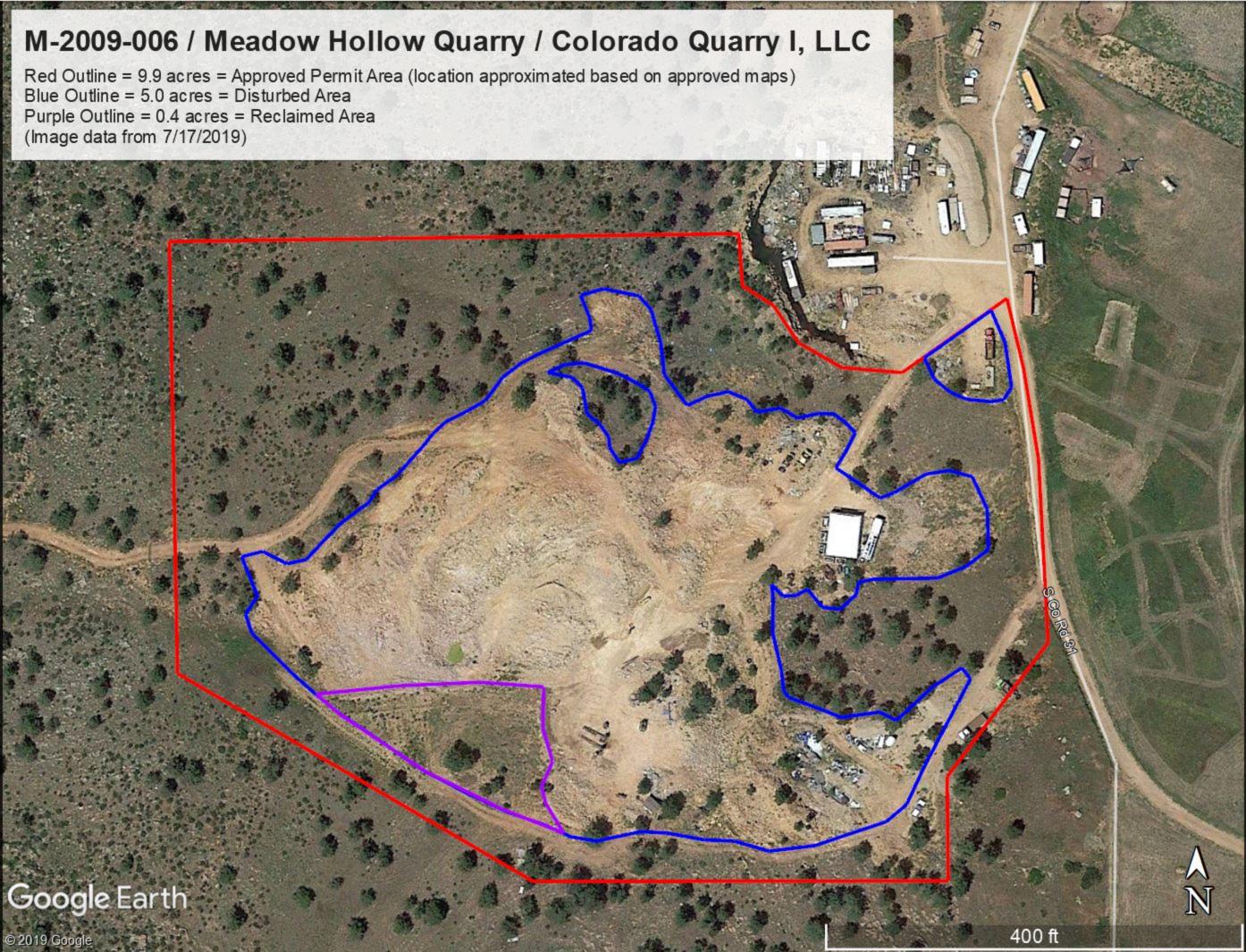
Succession of Operators application

Division's Bond Estimate

CC: John E. Holliday, Colorado Quarry I, LLC

Michael Cunningham, DRMS

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited





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 Perr	mittee):	
Permittee Representative:		
Please provide a brief descri	iption of the proposed revision:	
which does not have more the Environmental Protection Protection Protection Protection Protection Protection Protection Protection Protection and Protection In the the Division may require the to the permit. The request for a TR is not or Division (as listed below by expedite the review process determine if it is approvable TR, you will be notified of so day review period there are permittee requests additional There is no pre-defined form	Rules, a Technical Revision (TR) is: "a chan a minor effect upon the approved or lan." The Division is charged with deter Division determines that the proposed resubmittal of a permit amendment to make considered "filed for review" until the appropriate type). Please submit the appropriate within 30 days. If the Division requires specific deficiencies that will need to be still outstanding deficiencies, the Division of the submittal of a TR; however, it is Division to approve the TR request, inc.	proposed Reclamation or mining if the revision as submitted evision is beyond the scope of a TR, ke the required or desired changes propriate fee is received by the riate fee with your request to copriate fee, the Division will additional information to approve a addressed. If at the end of the 30 on must deny the TR unless the dinformation.
reclamation plan maps that a	accurately depict the changes proposed in a Revision by Permit Type - Please mark	n the requested TR.
your request for a Technical	· · · · · · · · · · · · · · · · · · ·	the correct ree and submit it with
Permit Type 110c, 111, 112 construction		Submitted (mark only one)
materials, and 112 quarries	\$216	
112 hard rock (not DMO)	\$175	
110d, 112d(1, 2 or 3)	\$1006	

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

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



REQUEST FOR TRANSFER OF MINERAL PERMIT AND SUCCESSION OF OPERATORS APPLICATION PACKET

The Mined Land Reclamation Board ("Board") has approved this Transfer of a Mineral Permit and Succession of Operators Application Packet pursuant to the Mined Land Reclamation Act (C.R.S. § 34-32-101 et. seq.) ("Hard Rock Act") and associated Rules (2 C.C.R. 407-1) ("Hard Rock Rules") and the Land Reclamation Act for the Extraction of Construction Materials (C.R.S. § 34-32.5-101 et. seq.) ("Construction Materials Act") and associated Rules (2 C.C.R. 407-4) ("Construction Materials Rules"). This Application Packet cannot be altered without the consent of the Board.

Applicability

This Transfer of a Mineral Permit and Succession of Operators Application Packet applies to mining operations where the current permitted mine operator ("Permittee") wishes to transfer the Reclamation Permit ("Permit"), along with all associated reclamation responsibilities and liabilities, to a Successor Operator ("Successor"). This process is referred to as a Succession of Operators ("SO").

Filing Requirements for SO Application

An SO Application is not complete until the Division of Reclamation, Mining and Safety ("Division") has received each of the six items listed below. The Board has authorized the Division to review SO Applications and to issue approvals and denials based on its review. The Division will not review incomplete Applications.

- Application Form: An Application Form is included in this Application Packet. Please note that the Application Form must be fully completed, and must bear the original notarized signature of an authorized representative of <u>BOTH</u> the Permittee and the Prospective Successor.
- Application Fee: If an Application concerns a Hard Rock or Designated Mining Operation, then a filing fee of \$115.00 must be submitted to the Division. See C.R.S. \$ 34-32-127(2)(a)(I)(L). If an Application concerns a Construction Materials operation, then a filing fee of \$144.00 must be submitted to the Division. See C.R.S. \$ 34-32.5-125(1)(a)(X). Make all checks payable to the "Colorado Division of Reclamation, Mining and Safety."

- Performance Warranty Form: The party wishing to become Successor ("Prospective Successor") must agree to assume all liability for the reclamation of affected land, and must provide a Performance Warranty covering the same. See C.R.S. §§ 34-32-119 and 34-32.5-119. A Performance Warranty Form is included in this Application Packet. The Performance Warranty Form must bear the original notarized signature of an authorized representative of the Prospective Successor.
- 4) Financial Warranty: The Prospective Successor must provide Financial Warranties sufficient to cover the cost of completing reclamation in compliance with the Permit, the applicable Act and Rules. See C.R.S. §§ 34-32-119 and 34-32.5-119. In order to ensure the adequacy of the Financial Warranties, the Division must recalculate the required Financial Warranty whenever it receives an SO Application. Depending upon the state of the operation and the outstanding reclamation work, the Successor may be required to post a higher (sometimes significantly) or lower Financial Warranty than the Permittee currently has in place.

The Division must act on all SO Applications within 30 days. *See* Hard Rock and Construction Materials Rule 1.12.1(2)(a). Since the Division cannot typically review the amount of the required Financial Warranty within this 30-day period, applicants have the following two options:

Applicants may waive their right to receive a decision within 30 days. If the applicants waive their right to a decision within 30 days, the Division will recalculate the required Financial Warranty *before* issuing its decision on the Application. As a result, the Prospective Successor will know, prior to becoming Successor, whether the current Financial Warranty is adequate to cover the reclamation liability, or if the Financial Warranty must be increased. In this case, the Prospective Successor must submit the full Financial Warranty as part of the Application.

Applicants may decide not to waive their right to a decision within 30 days. If the applicants choose not to waive their right to a 30-day review, the Division will review the Financial Warranty *after* issuing its decision on the Application. In this case, the Prospective Successor must submit a conditional replacement Financial Warranty in the amount of the Permittee's current Financial Warranty as part of the Application.

If the Application is approved, the Division will conduct an inspection within 60 days to assess the amount of the reclamation liability. If the inspection reveals that the reclamation liability exceeds the amount of the conditional replacement Financial Warranty, the Successor must submit the difference within sixty days. Failure to meet this deadline may result in an enforcement action. If the inspection reveals that the reclamation liability is less than the conditional replacement Financial Warranty, the Successor may request a Financial Warranty reduction for release of the difference.

It is the applicants' right to receive a decision on their complete Application within 30 days. The applicants are free to choose whichever option they decide is best. Permittee and Prospective Successor must designate their decision on the attached Application Form.

- Demonstration of Legal Right to E nter: All Permittees must provide a description of the basis for legal right of entry to the site and to conduct mining and reclamation. See Hard Rock and Construction Materials Rules 6.3.7 and 6.4.14. To comply with this requirement, the Prospective Successor must demonstrate that he/she/it has obtained a legal right of entry from any and all surface and mineral rights owners in the affected lands, independent of the current Permittee. See Hard Rock and Construction Materials Rules 6.3.7, 6.4.14, and 1.6.2(1)(e)(i). This may be a copy of an access lease, deed, abstract of title, current tax receipt, or a signed and notarized statement by the property owners stating that the Prospective Successor has a legal right to enter. See Hard Rock and Construction Materials Rule 6.3.7.
- 6) Structure Agreements: In many cases, operators must provide the Division copies of agreements to compensate the owners of any significant, valuable, and permanent manmade structures and utilities within 200 feet of the affected land ("Structure Agreements"). See Hard Rock Rules 6.3.12 and 6.4.20; Construction Materials Rules 6.3.12 and 6.4.19. If the Permittee was required to provide Structure Agreements, the Prospective Successor must obtain new Structure Agreements from each owner and provide copies of the same to the Division with the Application.

Application Review Process

The Division will grant an Application if it finds that all required information has been submitted, that the Prospective Successor is capable of assuming all responsibility for original permit by virtue of acceptable performance and Financial Warranties, and that the Prospective Successor has no outstanding violations. *See* C.R.S. §§ 34-32-119 and 34-32.5-119. If the Division does not act within 30 days from the date that a complete Application has been filed, the Application will be considered automatically approved. *See* Hard Rock and Construction Materials Rule 1.12.1(2). If an Application is denied, the Division will notify the Permittee and Prospective Successor no later than 10 days from the date it renders its decision. Both the Permittee and Prospective Successor may appeal a denial of an Application to the Board by submitting a written request for an administrative appeal hearing to the Board within 30 days of final decision date. *See* Hard Rock and Construction Materials Rule 1.4.11.

Application Checklist

Application Form : Complete the form located on page 5.
Application Fee : Include check payable to Colorado Division of Reclamation, Mining and Safety.
Performance Warranty: Complete the form located on page 11.
Financial Warranty : Submit the appropriate Financial Warranties or conditional replacement Financial Warranties using the forms posted on the Division's website (available online at http://mining.state.co.us/Mineral%20Forms.htm).
Demonstration of Legal Right to Enter : Identify the owners of all surface and mineral rights, obtain the documentation described above, and submit to the Division.
Structure Agreements : Obtain new Structure Agreements if Permittee had been required to do so.

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

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



APPLICATION FORM FOR TRANSFER OF MINERAL PERMIT AND SUCCESSION OF OPERATORS

ADMINISTRATIVE INFORMATION

Permit Information	
Permit Number:	
Operation Name:	
Permittee Information	
Contact Person:	
Company Name:	
Street Address:	
City:	<u>.</u>
State:	
Phone: ()	
Email (optional):	
Prospective Successor Information	
Contact Person:	
Company Name:	
Street Address:	
City:	
State:	
Phone: ()	
Email (optional):	

Other Reclamation Perm	nits held by Prospective Successor (if applicable):
<u>D</u>]	ESIGNATION OF REVIEW TIMELINE
decision on an Applicati Financial Warranty befo one of the following two	Permittee and Prospective Successor may waive their right to receive a on within 30 days in order to allow the Division to calculate the required receive issuing its decision. Permittee and Prospective Successor must initial options to designate their choice. If Permittee and Prospective the Division will render its decision within 30 days.
	I have reviewed the information provided in this Application
Permittee	Packet, as well as the applicable Act and Rules. Having been fully informed, I wish to <u>WAIVE MY RIGHT</u> TO A DECISION ON
Prospective Successor	MY APPLICATION WITHIN 30 DAYS.
	I have reviewed the information provided in this Application
Permittee	Packet, as well as the applicable Act and Rules. Having been fully informed, I wish to MAINTAIN MY RIGHT TO A DECISION
Prospective Successor	ON MY APPLICATION WITHIN 30 DAYS.

The Prospective Successor must provide an adequate Financial Warranty or *conditional* replacement Financial Warranty, consistent with the designation above. Hard Rock and Construction Materials Rule 4.3 describes the various acceptable types of Financial Warranties. Each Financial Warranty must be submitted on the Board's approved forms (available online at http://mining.state.co.us/Mineral%20Forms.htm).

DUE DILIGENCE CERTIFICATION

The Board wishes to ensure that Prospective Successors are fully informed of their duties and obligations should they become Successor to the Permit. Accordingly, the Prospective Successor must carefully review the items below and must initial indicating its agreement and understanding. If the Application is approved, the Prospective Successor will assume all liability for the reclamation of the affected land, and for compliance with the Hard Rock Act and Rules or the Construction Materials Act and Rules, as applicable (available online at http://mining.state.co.us/Rules%20and%20Regs.htm). Successor will be liable for any pre-existing conditions or violations, whether known or unknown at the time of the SO. It is the Prospective Successor's sole responsibility to investigate the operation prior to filing an Application. If the Application is approved, the Successor will be solely responsible for maintaining the mining and reclamation operations in compliance with the Reclamation Permit. The Permit includes the original approved Application, along with any and all subsequent revisions, amendments, and conversions thereto. It is not uncommon for a Permit to include dozens of documents that span many years. It is the Successor's sole responsibility to obtain a full and complete copy of the Permit and to understand the extent of his/her/its obligations thereunder. Permit documents may be purchased from the Division of Reclamation, Mining and Safety (the "Division") upon request or viewed on the Division's website at http://drmsweblink.state.co.us/drmsweblink/search.aspx?dbid=0 If the Application is approved, the Successor must submit Annual Fees and Annual Reports to the Division on the anniversary date of the Reclamation Permit. For hard rock and designated mining operations, consult C.R.S. § 34-32-127(2) for the amount of the Annual Fee. For construction materials operations, consult the C.R.S. § 34-32.5-125 for the amount of the Annual Fee. Required annual reporting information is described in Hard Rock and Construction Materials Rule 1.15 and in the Annual Report Form provided by the Division. Failure to submit Annual Fees or Annual Reports may result in enforcement action.

<u>APPLICANTS' AGREEMENT TO REQUEST TRANSFER</u> OF MINERAL PERMIT AND SUCCESSION OF OPERATORS

WHEREAS, on	,	Perm	nt Num	iber		("Permit")
rring amounted to					("Domnittoo")
pursuant to which Permit,	Permittee has	engaged	in a	mining	operation	located in
County, C	olorado.				-	
WHEREAS, The Permit inc	ludes and inco	orporates a	ny an	d all sut	sequent A	Amendments,
Technical Revisions and/or Co	nversions.	_	-		_	
WHEREAS, Permittee wishes responsibilities to			,		("Prospective
Successor"), and Prospective S	uccessor wishes	s to become	e Succe	ssor Pern	nittee under	r the Permit.
WHEREAS, Prospective Succ fully aware of the conditions the	-	cted the mi	ining a	nd reclan	nation oper	ations and is
WHEREAS Prospective Succ	cessor understa	nds that th	e Recl	amation]	Plan (the "	'Plan") is an

integral part of the Permit and is required by law. Prospective Successor has had an opportunity to thoroughly review the Plan, understands that the Plan has not been completed and that, if Prospective Successor becomes Successor, he/she/it will assume full responsibility for the completion of the Plan.

NOW THEREFORE, Permittee and Prospective Successor hereby agree, for their own benefit and for the benefit of the State, as follows:

Prospective Successor agrees to accept all of the conditions of the Permit, including the condition that the operation remains in compliance with all applicable laws and regulations, and to perform all of the obligations of the Permittee under the Permit.

Prospective Successor agrees to complete the Plan, and to assume all liability for the same, as to all areas presently disturbed, as well as to all areas hereafter disturbed.

Prospective Successor agrees to submit to the Division of Reclamation, Mining and Safety ("Division"), Performance and Financial Warranties, as required by applicable law and regulations, which will be substituted for the Performance and Financial Warranties previously filed by the Permittee, if and when the Division approves a Transfer of Mineral Permit and Succession of Operators ("SO") and releases the latter Warranties.

Prospective Successor represents to the State that, to the best of its knowledge, information and belief, it is not in violation of any of the provisions of the Mined Land Reclamation Act (C.R.S. § 34-32-101 *et. seq.*) ("Hard Rock Act") and associated Rules (2 C.C.R. 407-1) ("Hard Rock Rules") or the Land Reclamation Act for the Extraction of

Construction Materials (C.R.S. § 34-32.5-101 *et. seq.*) ("Construction Materials Act") and associated Rules (2 C.C.R. 407-4) ("Construction Materials Rules"), with respect to any other operation conducted by the Prospective Successor in the State of Colorado.

Board ("Board") approve	es their SO Application,	request that the Mined Land R recognizes the Prospective Su	ccessor as
-	-	Prospective Successor's Performance and Financial V	
i maneiar warrancies, and	releases the current remitte	e s i cirormanee and i manerar	vv arranties.
SIGNED, SEALED AND	DATED this day	of,	·
<u>PERMITTEE</u>		PROSPECTIVE SUCCESSOR	
Name of Permittee		Name of Prospective Successo	
		•	
By Signature of Officer		By Signature of Officer	
Signature of Officer		Signature of Officer	
Title of Officer		Title of Officer	
	NOTARY FOR PER	<u>MITTEE</u>	
STATE OF)		
COUNTY OF			
COUNTY OF			
The foregoing instrument	was acknowledged before me thi	s day of	,,
by	as	of	·
		Notary Public	
	My Comr	ission Expires	

NOTARY FOR PROSPECTIVE SUCCESSOR

	TE OF)		
COU) ss.: JNTY OF)		
	The foregoing instrument was acknowledged before me this	day of	, ,
by	as		
	,	M . D 11	
	Γ	Notary Public	
	My Commi	ssion Expires	
	STATE APPROV	AL	
	[for completion by Di		
(a)	The Board hereby approves the transfer of permit number		from
	to		
(b)	The Board hereby recognizes		_ as Successor Operator under
	such Permit.		
(c)	The Board hereby accepts the Performance and Financial V	Warranties submitte	ed by Successor and hereby
	releases	, as former Perm	ittee from all obligations under
	its Performance and Financial Warranties. The Board furtl	her releases all affe	cted financial warrantors from
	obligations under Financial Warranties associated with the	former Permittee.	
STA	TE OF COLORADO		
	ARTMENT OF NATURAL RESOURCES		
	ED LAND RECLAMATION BOARD ISION OF RECLAMATION, MINING AND SAFETY		
D1 V 1	ision of Rechaminon, minino and sale i		
By:	Dat	te Executed:	
-	Dat Division Director		

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

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



PERFORMANCE WARRANTY

Operator:			
Operation:			
Permit Number: _			
the Mined Land associated Rules (Extraction of Con Act'') and associator modification of warranty being in invalid performan	Reclamation Act (C.R.S. 2 C.C.R. 407-1) ("Hard Roc struction Materials (C.R.S. ted Rules (2 C.C.R. 407-4) ("I this form, without approve valid and result in the voiding ce warranty and subject the	§ 34-32-101 et. see ck Rules") and the L § 34-32.5-101 et. see "Construction Materal by the Board shang of any permit issues to cease suant to sections 34	Board ("Board") pursuant to a.) ("Hard Rock Act") and and Reclamation Act for the a.) ("Construction Materials rials Rules"). Any alteration all result in the performance wed in conjunction with such a and desist orders and civil 4-32-123, C.R.S. of the Hard
KNOW ALL MEN	I BY THESE PRESENTS, T	ГНАТ:	
"Hardrock Act"), Construction Mate amended (collective Reclamation Board	as amended, and the Colora erials, C.R.S. § 34-32.5-101 yely the "Acts"), provide that d (the "Board") receives a p comply with the requirement	ado Land Reclamati et seq. (the "Cons at no permit may be erformance warranty	.R.S. § 34-32-101 et seq. (the on Act for the Extraction of struction Materials Act"), as issued until the Mined Land consisting of the Operator's or Construction Materials Act,
WHEREAS	S,a mining operation known	the "	Operator"), has applied for a
(the "Operation")	on certain lands in I in the permit application, a		County, Colorado. These elemented, and are referred to
requirements of t		on Materials Act a	has agreed to be bound by all and all applicable rules and

WHEREAS, the Operator hereby gives the Board this performance warranty pursuant to C.R.S. §§ 34-32-117(2) or 34-32.5-117(2), and herein promises the Board that it will comply with all applicable requirements of the Hardrock or Construction Materials Act.

NOW, THEREFORE, The Operator hereby promises the Board that it will comply with all applicable requirements of the Hard Rock or Construction Materials Act and applicable rules and regulations of the Board.

The Operator hereby promises the Board that it will comply with all of the terms of the application for a permit, as amended and supplemented, as well as any conditions attached to the permit by the Board.

The Operator promises the Board, pursuant to C.R.S. §§ 34-32-112(1)(d) or 34-32.5-112(1)(b)(IV), that it has the lawful authority to enter upon the Affected Lands to conduct mining operations, including, but not limited to, reclamation. The Operator further recognizes the right of the Board to enter to reclaim lands affected by the Operation.

The description of lands herein is for convenience of reference only, and no error in such description, revision of the permitted mining area, or disturbance by the Operator of lands outside of the permitted mining area shall alter or diminish the Operator's obligation hereunder, which shall extend to the reclamation of all such lands disturbed.

The obligation of the Operator hereunder is such that, if the Operator shall successfully comply with the requirements of the Hardrock or Construction Materials Act, applicable rules and regulations, and the permit, then the Board, upon a finding that the Operator has so complied, shall release this performance warranty, and the Operator from its obligation hereunder. The obligation of the Operator hereunder shall continue until released by the Board in accordance with applicable law.

The Operator promises to be responsible for the cost of reclamation up to the amount established by the Board and has attached hereto its financial warranty, in accordance with C.R.S. §§ 34-32-117(3) or 34-32.5-117(3). The Operator agrees that it will maintain a financial warranty (or warranties) covering the Board's estimated costs of reclamation in good standing for the entire life of the permit. If the Operator is a unit of County or Municipal government, or is a department or division of State government, the Operator is not required to submit or post any other instrument of financial responsibility but hereby promises to be responsible for the cost of reclamation up to the amount specified by the Board.

If the Board determines that the Operator is in default under this performance warranty and has failed to cure such default, although written notice of such default and ample time to cure such default have been given, the Operator's financial warranty shall be subject to forfeiture.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado. The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND	DATED this	day of	
	Operator		(SEAL)
	•		,
	11tic		
NOTAL	RIZATION OF OPE	CRATOR'S ACKNOWLEDGEMENT	
STATE OF)		
COUNTY OF) ss.:)		
			
The foregoing instrument	was acknowledged b	efore me this day of	
by	as	of	·
		Notary Public	
		My Commission Expires	
STATE OF COLORADO DEPARTMENT OF NATURA	L RESOURCES		
MINED LAND RECLAMATION	ON BOARD		
DIVISION OF RECLAMATIC	IN, MIINING AND SA	AFEI I	
By:		Date Executed:	
Division Di	irector		

Rev. 05/12

COST SUMMARY WORK

Та	ask description: Cos	t Summary				
Site:	e: Meadow Hollow Quarry Permit Action: 1/16/2		1/16/2020 Insp	ection	Permit/Job	#: <u>M2009006</u>
PR	OJECT IDENTIFICATI	<u>ON</u>				
	Task #:	State: Colorado			Abbreviation:	None
	Date: 1/27/2020 User: AME	County: Larimer			Filename:	M006-000
	Agency or organization	name: DRMS				
<u>TA</u>	SK LIST (DIRECT COS	<u>TS)</u>				
ask			Form	Fleet	Task	G .
	Description	117	Used	Size	Hours	Cost
)1	Grade 4 acre pit area to 3H		DOZER	1	27.79	\$6,689
)2	Grade 0.5 acre storage area		DOZER	1	3.09	\$743
)3	Grade 0.1 acre storage area		DOZER	$\frac{1}{1}$	0.33	\$80
)4	Spread growth medium acr	oss 4.6 acres	SCRAPER1	$\frac{1}{1}$	8.32	\$5,147
)5)6	Revegetate 5 acres Mobilization/Demobilization		REVEGE MOBILIZE	$\frac{1}{1}$	3.24	\$8,055 \$2,702
<u>IN</u>	DIRECT COSTS					
OV	ERHEAD AND PROFIT:					
	Liability insurance:	2.02			Total = \$4°	73
	Performance bond:	1.05			Total =	46
	Job superintendent:	26.39			Total =	831
	Profit:	10.00				342
		CONT	RACT AMOUNT			8,307
LE	CAL ENGINEEDING DD			i (anou	<u> </u>	<u> </u>
LE	GAL - ENGINEERING - PRO					
Financial warranty processing (legal/related costs):					Total = $\frac{\$0}{\$0}$	
	Engineering work and/or c		0.00	_	Total = $\frac{\$0}{\$1}$	A15
	Reclamation managemen	t and/or administration:	5.00	_	\$1,	415
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL I	NDIREC	T COST = \$6,	307
		TOTAL BO	ND AMOUNT (direct + i	ndirect) = \$29	9,723

BULLDOZER WORK

Task description: Grade 4 acre pit area t	o 3H:1V		
e: Meadow Hollow Quarry Permit Ac	tion: <u>1/16/2020 Ir</u>	<u>ispection</u> Permi	t/Job#: <u>M2009006</u>
PROJECT IDENTIFICATION			
Task #: 001 State: Colo Date: 1/27/2020 County: Larin User: AME		Abbreviation Filenam	
Agency or organization name: DRMS			
HOURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal 3-shank ripper Shift Basis: 1 per day			
Data Source: (CRG)			
Cost Breakdown: Ownership Cost/Hour: \$103	.86 <u>Utilizat</u>		
Operating Cost/Hour: \$82			
Ripper own. Cost/Hour:	.43 NA	4	
	.19 50)	
Operator Cost/Hour: \$39	.98 NA	4	
Total Fleet Cost/Hour: \$240.72 MATERIAL QUANTITIES Initial Volume: 38,720 Swell factor: 1.000			
Loose volume: 38,720 LCY			
Source of estimated volume: Source of estimated swell factor: 4 acres x 6 ft high Cat Handbook	1		
HOURLY PRODUCTION			
Average push distance: 100 feet Unadjusted hourly 852.6 LCY/hr production:			
Materials consistency description: Loose stockpi	le 1.2		
Average push -25 % gradient:			
Average site altitude: 5,680 feet			
Material weight: 2,550 lbs/LCY			
Weight description: Sandstone			
Job Condition Correction Factor	<u>.</u>	Source	

Operator Skill:	1.000	(EXCL.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.6344

Adjusted unit production: 1,393.49 LCY/hr

Adjusted fleet production:

1393.49 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$0.173/LCY

Total job time: 27.79 Hours
Total job cost: \$6,689

BULLDOZER WORK

Task description:	Grade 0.5 acre st	torage area t	to 3H:1V		
: Meadow Hollow Qua	nrry Per	mit Action:	1/16/2020 Inspection	Permit/Jol	o#: <u>M2009006</u>
PROJECT IDENTIFI	CATION				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: $\frac{602}{1/27/2020}$	County:	Larimer		Filename:	M006-002
User: AME		Burnier		i iiciiaiiic.	111000 002
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME					
	t D8T - 8SU		_		
Horsepower: 310			_		
• • • • • • • • • • • • • • • • • • • •	mi-Universal		=		
	shank ripper		_		
	er day RG)		_		
	NU)		_		
Cost Breakdown:		I	TT('1' .' 0'		
Orymonal-in Co. (/II)		¢102.96	<u>Utilization %</u>		
Ownership Cost/Hour:		\$103.86	NA 100		
Operating Cost/Hour: Ripper own.	-	\$82.26	100		
Cost/Hour:		\$10.43	NA		
Ripper op. Cost/Hour:	-	\$4.19	50		
Operator Cost/Hour:		\$39.98	NA		
MATERIAL QUANT	<u> </u>				
Initial Volume: 4,03		_			
Swell factor: 1.16		_			
Loose volume: 4,69	98 LCY	<u> </u>			
Source of estimated volu	ime: 0.5 acres	x 5 ft high ru	bble piles		
Source of estimated swe	ll Cat Hand	book			
factor:					
HOURLY PRODUCT	<u> ION</u>				
Average push distance:	50 feet				
Unadjusted hourly	1,400.0 LC	V/hr			
production:	1,400.0 LC	1 / 111			
production.			<u></u>		
Materials consistency de	escription: Partly c	onsolidated s	stockpile 1.1		
Average push	-25 %				
gradient:					
Average site altitude:	5,680 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock	- 50% Rock,	50% Earth		
Job Condition Correction	Factor_		<u>Source</u>		

Operator Skill:	1.000	(EXCL.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.0866

Adjusted unit production: 1,521.24 LCY/hr

Adjusted fleet production: 1521.24 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.158/LCY

Total job time: 3.09 Hours
Total job cost: \$743

BULLDOZER WORK

Task description:	Grade 0.1 acre	storage area	to 3H:1V		
e: Meadow Hollow Qu	narry Pe	ermit Action:	1/16/2020 Inspection	Permit/Jol	b#: <u>M2009006</u>
PROJECT IDENTIF	FICATION				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: 1/27/202	0 County:	Larimer		Filename:	M006-003
User: AME					
Agency or orga	anization name: D	RMS			
HOURLY EQUIPM	ENT COST				
	Cat D8T - 8SU		_		
	10		_		
•••	emi-Universal		_		
	-shank ripper		_		
	per day		_		
	CRG)		_		
Cost Breakdown:		Ú			
0		¢102.05	<u>Utilization %</u>		
Ownership Cost/Hour		\$103.86	NA 100		
Operating Cost/Hour Ripper own		\$82.26	100		
Cost/Hour		\$10.43	NA		
Ripper op. Cost/Hour	:	\$4.19	50		
Operator Cost/Hour	:	\$39.98	NA		
MATERIAL QUANT Initial Volume: 32 Swell factor: 1.1					
Loose volume: 37	3 LCY				
Source of estimated vo	olume: 0.1 acres	s x 2 ft high ru	bble piles		
Source of estimated sw factor:	-		*		
ractur.					
HOURLY PRODUC	<u>TION</u>				
Average push distance	: 50 feet				
Unadjusted hourly	1,400.0 LC	CY/hr			
production:					
Materials consistency	description: Partly	consolidated s	stockpile 1.1		
·					
Average push	-5 %				
gradient:	T 600 C				
Average site altitude:	5,680 feet				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Decomposed roc	k - 50% Rock,	, 50% Earth		
Job Condition Correction	n Factor		Source		

Operator Skill:	1.000	(EXCL.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7992

Adjusted unit production:

1,118.88 LCY/hr

Adjusted fleet production:

1118.88 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.215/LCY

Total job time: **0.33** Hours

Total job cost: \$80

SCRAPER TEAM WORK

Task description:	Spread gr	owth medium ac	cross 4.6 acres			
Site: Meadow Hollow	Quarry	Permit Action	n: <u>1/16/2020 Ins</u>	spection P	ermit/Job#: M	2009006
PROJECT IDENT	<u>IFICATION</u>					
Task #:004		State: Colorado)	Abbrev	viation: None	
Date: 1/27/20 User: AME	020 Co	unty: <u>Larimer</u>		Fil	ename: M006	5-004
Agency or o	rganization name:	DRMS				
HOURLY EQUIP	MENT_		COSTS	Shift basis: 1 per	<u>day</u>	
		Equipm	ent Description			
		Scraper: Cat 63	37G			
Suppor	t Equipment -Loa	-Dozer: NA d Area: Cat Da	8T - 8SU			
• •	-Dum	p Area: NA	01 050			
Road Mai	ntenance –Motor					
	-water	Truck: NA				
Cost Breakdown:	Scraper Wor	k Team	Support Equ	ipment	Maintenan	ce Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	NA	NA	NA
Ownership cost/hour:	\$162.02	NA	\$103.86	NA	NA	NA
Operating cost/hour:	\$184.64	NA	\$82.26	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	NA	\$0.00	NA	NA	NA
Operator cost/hour:	\$45.58	NA	\$39.98	NA	NA	NA
Unit Subtotals:	\$392.24	NA	\$226.10	NA	NA	NA
Number of Units:	1	0	1	0	0	0
Group Subtotals:	Work:	\$392.24	Support:	\$226.10	Maint:	\$0.00
Total work team cost/	hour: <u>\$618.34</u>					
MATERIAL QUA	NTITIES					
Initial volume:	3,710	CCY	Swell fac	tor: 1.125		
Loose volume:	4,174	LCY				
	ce of estimated vo		es x 6 inch depth			
Source o	f estimated swell f	factor: Cat Har	ndbook			
HOURLY PRODU	<u>ICTION</u>					
			Scraper E	Bowl (volume) Ba	sis:	
Material weight:	2,650 lbs/LCY		_	Volume: 24.00		LCY
Material description:	Decomposed roc 75% Earth	ck - 25% Rock,		Volume: 24.00 Volume: 34.00		LCY
Rated Payload: Payload Capacity:	81,600 pounds 30.79 LCY		Average Adjusted (LCY LCY

Site Altitude: 5680 feet

~				
Cvc	ΙД	111	m	10.
L.VL	ı		111	ıc.

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

	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 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	25.00	5.00	30.00	267	1.12

Haul Time: 1.12 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-25.00	5.00	-20.00	1201	0.36

Return Time: 0.36 minutes Total Scraper team cycle time: 2.88 minutes Adjusted for job conditions: 501.46 LCY/Hour Selected Number of Scrapers: 1 Scraper(s) Adjusted single scraper team (unit) hourly production: 501.46 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 501.46 LCY/Hour

Unadjusted 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:	8.32	Hours
Unit cost:	\$1.233	/LCY	Total job cost:	\$5,147	

REVEGETATION WORK

T	ask description: Re	evegetate 5 acres					
»: _	Meadow Hollow Quarry	Permit A	ction:1/1	6/2020 Inspecti	on	Permit/Job#	: <u>M2009006</u>
PR	ROJECT IDENTIFICAT	ION					
	Task #: 005		orado		Λbb	reviation:	None
	Date: 1/27/2020	County: Lari					M006-005
	User: AME		mer			i ilchaille.	11000 003
	Agency or organization	on name: DRMS					
FE	ERTILIZING						
	aterials						
	Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
					\$		\$
					Tota	nl Fertilizer Materials Cost/Acre	\$0.00
							\$
							\$
L			Tot	al Fertilizer A	pplication	Cost/Acre	\$0.00
ΓI	LLING						
	Description						Cost /Acre
							\$
				To	tal Tilling	g Cost/Acre	\$0.00
SE	EEDING						
	Seed Mix]]	Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre
-	Big Bluestem - Kaw				Acre 11.00	32.83	\$146.85
-	Blue Grama - Hachita				3.00	48.97	\$47.93
H	Indian Ricegrass - Paloma				12.00	38.84	\$133.50
- 1							

Sideoats Grama - Vaughn

Slender Wheatgrass - San Luis

Western Wheatgrass - Rosanna

\$75.38

\$46.75

\$92.00

\$636.78

9.00

11.00

16.00

69.00

Totals Seed Mix

29.55

40.15

40.40

272.52

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$180.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre		
Juniper, Rocky Mountain	12	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.31	\$0.00	\$27.72		
Pine, Ponderosa	48	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.31	\$0.00	\$110.88		
	4420.50						
	Totals Nursery Stock Cost / Acre \$138.60						

JOB TIME AND COST

No. of Acres:	5	Cost /Acre:	\$1,222.60
Estimated Failure Rate:	30%	Cost /Acre*:	\$904.00
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$6,113.00
Reseeding Job Cost:	\$1,356.00
Total Job Cost:	\$7,469
Job Hours:	10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

ite:	Meadow Hollow Quarry	Permit Action:	1/16/2020 Inspection	Permit/Job#:	M2009006

PROJECT IDENTIFICATION

Task description:

Task #:006State:ColoradoAbbreviation:NoneDate:1/27/2020County:LarimerFilename:M006-006

User: AME

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

Mobilization/Demobilization

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$114.29	\$141.54	1	\$255.83	\$141.54	\$250.00
Cat 637G	57.28	\$162.02	\$141.54	1	\$303.56	\$141.54	\$250.00

Subtotals: \$559.39 \$283.08 \$500.00

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.	\$12.96	1	\$12.96	\$12.96

Subtotals: \$12.96 \$12.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

BERTHOUD

miles

50.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.21	0.21
Return Time (Hours):	0.21	0.21
Loading Time (Hours):	0.60	NA
Unloading Time (Hours):	0.60	NA
Subtotals:	1.62	0.42

JOB TIME AND COST

Total job cost: 3.24 Hours

Total job cost: \$2,702