




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: Mid-Continent LST	MINE/PROSPECTING ID#: M-1982-121	MINERAL: Limestone (general)	COUNTY: Garfield
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Yeldell	INSP. DATE: July 26, 2021	INSP. TIME: 12:00
OPERATOR: RMR Aggregates, Inc.	OPERATOR REPRESENTATIVE: Justin Olin	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Citizen Complaint	BOND CALCULATION TYPE: None	BOND AMOUNT: \$366,179.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: DRMS	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 28, 2021	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

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

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

OBSERVATIONS

On July 22, 2021 the Colorado Division of Reclamation Mining, and Safety (Division) received a citizen's complaint. The complaint alleged that a large amount of silt/sedimentation has been deposited on their property making the road impassible. The citizen believes that the mine (Mid-Continent LST, Permit No. M-1982-121) which is located up gradient may be the source of the material. In response to this complaint the Division conducted a site inspection on July 26, 2021. Local weather was hot and dry with no precipitation that day or the day before.

Grasmere Lots:

The Division first inspected the two Grasmere Lots (Parcel No. 218504310002 and 218504310001) located in Glenwood Springs, CO on the south side of Traver Trail Road. Mr. Grasmere was not present for the inspection as he lives out of State but he was informed that the Division would be conducting an inspection as part of the investigation process. The lots are accessed from the east via a two track road. A natural drainage way divides the two lots and this is the area of sediment deposition (photo one). At the time of the inspection water was observed trickling downgradient. Staff estimates the flow to be approximately 2-5 gallons per minute. There appears to be no culvert or other armored path for water to flow across the road. This has resulted in both road cutting and sediment deposition (photo two). At the time of the inspection water was limited to just the ditch but dried sediment deposition outside of the ditch was observed. The cut in the road was varied from 2 inches to over a foot deep.

There is a house (Mr. and Mrs. Sims) with a bare rock hillside located approximately 70 feet above the road and directly to the northwest of the road (photo three). Though the sediment deposition extends to the hillside, given the presence of water the sediment is likely being carried from the draw rather than from the house site.

Division staff hiked up gradient towards the northeast to follow the water and attempt to find the source location. Beyond the Grasmere roadway up gradient the property is owned by City of Glenwood Springs on the east and Mr. and Mrs. Sims on the west until the Right of Way where Transfer Trail comes off of Traver Trail Road. Vegetation in the draw was indicative of seasonal water and is significantly lush than adjacent vegetation located on the hillside (photo four). The draw had sediment deposition from where water flowed through the lush grasses and around trees and rocks. At the top of the draw near the Right of Way were two culverts which carry water under Traver Trail Road from the north side to the south side. The eastern side culvert which starts on property owned by Iron Mountain Properties LLC was dry. The western side culvert which starts on property owned by Glenwood Caverns Holdings LLC was observed flowing. The Division would like to note that the culvert was mostly plugged with sediment and only the top few inches of what appears to be a 24 inch culvert was open (photo five).

Traver Trail Road and Transfer Trail Road:

Next the Division followed the source of the water up the Transfer Trail Road towards the mine. As previously stated the culvert carries water from property owned by Glenwood Caverns Holdings LLC along Transfer Trail Road to the south (photo six). There appears to be a separate ditch, not associated with the road ditch that is carrying water. This ditch is on the west side of Transfer Trail Road and varies in size from over 10 feet wide in some spots to as little as 2 feet wide. Vegetation along this ditch is also indicative of frequent water. Approximately 860 feet up gradient from the culvert, the water enters the ditch from a drainage on the west side that comes out of the Oasis Creek Subdivision. Irrigation pipes are adjacent to the waters path as well as an abandoned gate valve where it goes uphill to the subdivision (photo seven). No water was observed flowing through the piping. Upon high flows it appears that the water extends beyond the ditch and will flow into the

ditch along Transfer Trail.

Staff continued further up Transfer Trail Road towards the mine. The roadside ditch was dry the entire length above the intersection of the ditch from Oasis Creek Subdivision. The ditch which carried water separate from the roadway appears to also stop at the Oasis Creek Subdivision and does not extend further up the road.

There is a catchment pond located on the north side of the first/lowest switch back (photo eight). Large boulders armor the hillside in the event that the catchment is overtopped and stormwater discharges into the ditch of the road along Transfer Trail Road. The rocks appear to be free of sediment indicating that the catchment has not recently overflowed. The catchment pond itself does have sediment as to be expected and as designed but has sufficient capacity for future stormwater events.

Mid-Continent LST:

Finally the Division inspected stormwater features located within the permit boundary. Several sediment basins are located on the east or uphill side of the mine road. Culverts then carries water under the road where it discharges down the hill onto armored channels (photo nine). On the west or downgradient side of the road are catchment ponds to collect water flowing down the mine roads (photo ten). This water is collected, sediment drops out and water either infiltrates or flows through riprap and down the hillside. All of the stormwater BMP's along the mine road appear to be functioning effectively. No blow-outs or failures were observed. All catchments had sediment which indicates that they are functioning. The Division does recommend installation of rock check-damns in the ditches of the roads to slow water down and prevent cutting prior to water hitting the catchments. This would be an improvement to the existing BMP system but not a requirement.

All sediment and stormwater from the production bench (highwall and processing area) flows downgradient along the roadside ditches and/or onto the mill bench. On the southwest corner is the sites main sediment pond (photo eleven). It is approximately 20 feet by 30 feet. Water either infiltrates or flows down an armored channel into the gulch that Transfer Trail follows. The sediment pond has sufficient capacity and does not require any clean out maintenance at this time (photo twelve). Staff inspected the berming for and signs of failures. No areas where stormwater could leak through the berm or had cut is were observed nor did appear that water had overtopped it in recent storms. The channel armoring down the hillside appeared to be in good working order. The armored channel was not full of sediment, nor was any undercutting observed.

Based on the Divisions observations there appears to be no correlation between sediment deposition on the Grasmere Lots and Mid-Continent LST (mine).

Responses to this inspection report should be directed to: Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

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PHOTOGRAPHS

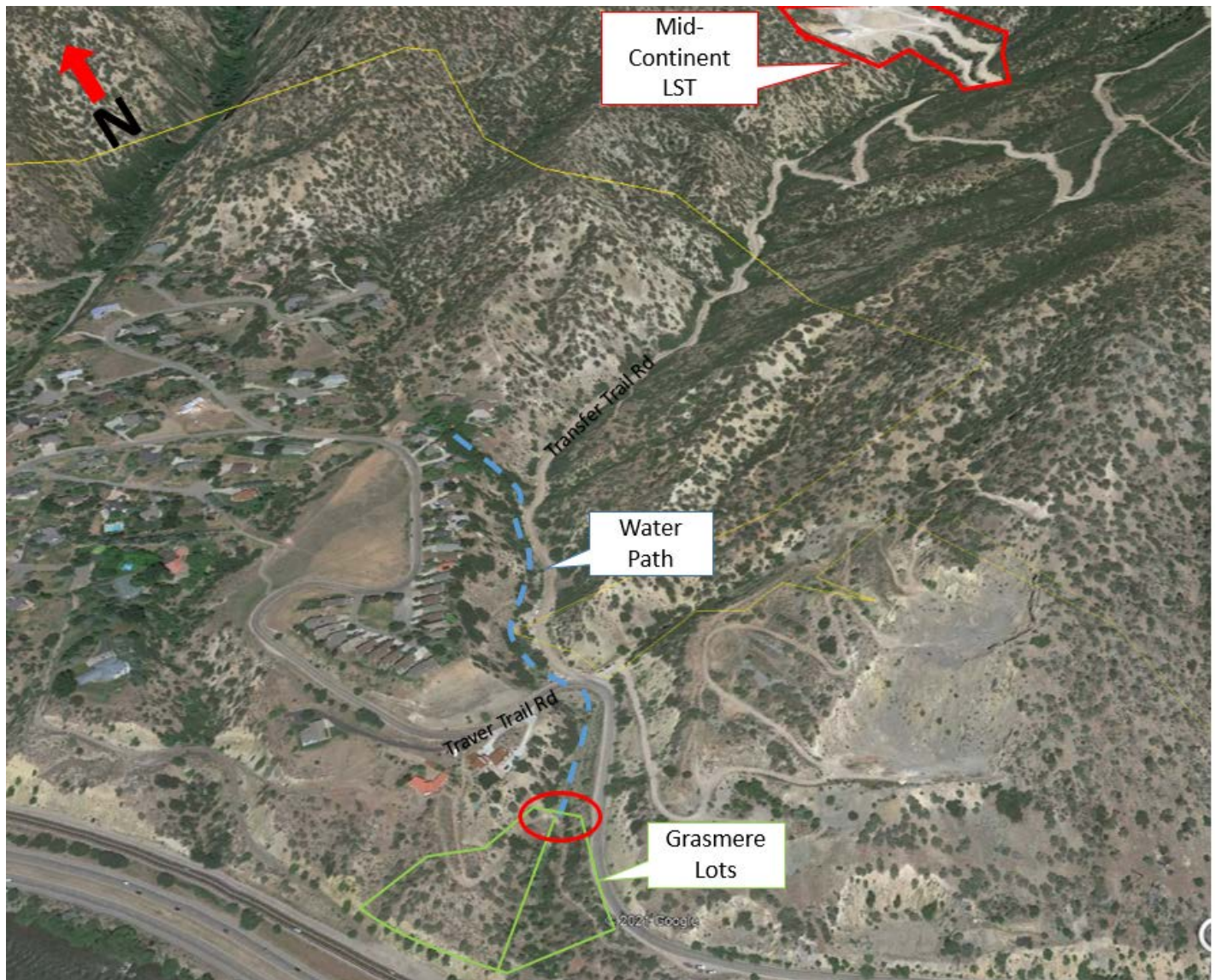




Photo One: Deposition on roadway looking up-gradient



Photo Two: Road being eroded by water

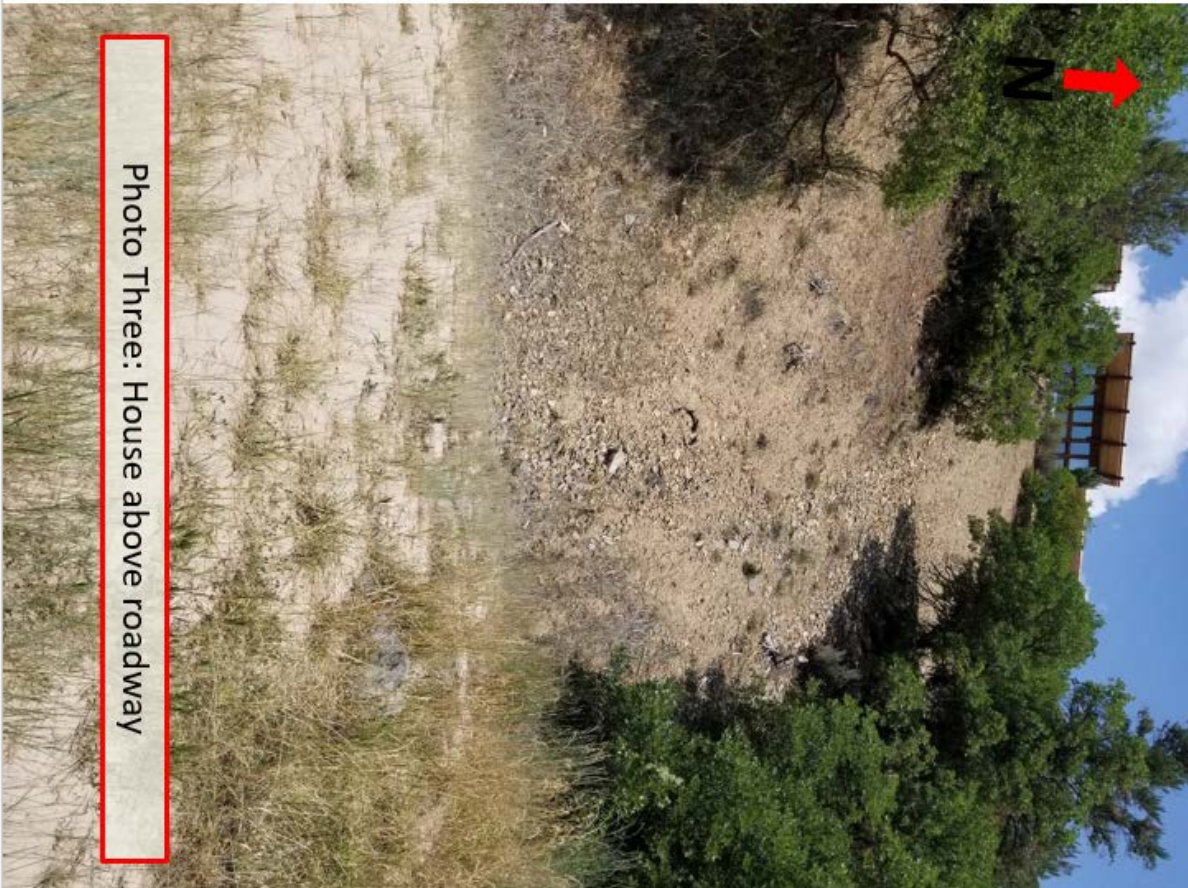


Photo Three: House above roadway



Photo Four: Water pathway flowing down ditch,
lush vegetation





Photo Seven: Irrigation piping form Oasis Creek
Subdivision, water flowing below



Photo Eight: Catch basin on Transfer Trail road
with capacity



Photo Nine: Catch basing and culvert at mine



Photo Ten: Catch basin on lower mine road

