




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: M & G Pit	MINE/PROSPECTING ID#: M-1986-079	MINERAL: Sand and gravel	COUNTY: Adams
INSPECTION TYPE: Surety-Related Inspection	WEATHER: Clear	INSP. DATE: August 1, 2023	INSP. TIME: 10:00
OPERATOR: Mann Lake Holdings, LLC	OPERATOR REPRESENTATIVE: Andy Blackford	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Surety Release Requested	BOND CALCULATION TYPE: None	BOND AMOUNT: \$31,403.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Nikie Gagnon	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 14, 2023	

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>Y</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</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>N</u>	(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>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</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 M & G Pit was inspected by Nikie Gagnon with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of a full/final release application submitted to the Division on June 22, 2023. Andrew Blackford, representing the Operator, Mann Lake Holding LLC, accompanied the Division during the inspection.

Signs and Markers:

The M&G Pit is located on the southeast corner of East 120th Parkway and Brighton Road, near Henderson CO. The mine sign was observed as required by Rule 3.1.12 and the site is surrounded by a fence.

Reclamation/Revegetation Success

The M&G Pit is a 112c operation permitted for 70.50 acres. The post-mine land use is wildlife habitat. The original reclamation plan called for leaving a large lake on the property with a trail system. In 2007, the Division approved Amendment 1 to allow for filling in the proposed lake to 2 feet above groundwater to prevent the evaporative loss of groundwater since the operator at the time did not have the appropriate water rights. Based on Google imagery, backfilling of the southern parcel was completed in 2010. Backfilling of the northern parcel was completed in 2020. The Division records in show a discussion with the previous Operator regarding the requirement to submit an Amendment to change the post mining land use due to backfilling of the lake. However, in August 2010, the Division determined an amendment to change the post mining land use was not necessary. In August 2020, Technical Revision 9 was approved which allowed for the installation of a swale across the permit area to manage water flowing across the site. Final grading of the northern half of the permit area and construction of the swale was completed in the summer of 2020.

During this inspection, the Division observed that revegetation is not consistently successful across the entire site. Portions of the northern permit area east of the swale have adequate coverage with native grasses and forbs. However, there are compacted bare spots, primarily along the new road, that need to be scarified and overseeded.

Reclamation is not complete in the northern parcel on the western side of the swale, near the front entrance. A mobile office, concrete pipes and landscaping boulders stored in this area need to be removed in accordance with the approved reclamation plan. Additionally, the topsoil should be ripped to reduce compaction and seeded with the approved seed mix. Generally, after two growing seasons, the operator may request a release if the revegetation effort in this area is successful.

The southern parcel is utilized for llama pasture. Adequate vegetation cover was observed on the berms and in the field, however, areas of kochia, bindweed and other invasive weeds were observed. A thick patch of thistles were observed encroaching on the swale on the southern end. The thistles were inside the fenced pasture above the banks of the swale. The Division recommends weed control in this area to control the spread of thistle across the entire permit site.

Weed Control

Russian olive trees were observed along the banks of the swale in both parcels. Russian olive is a designated List B noxious weed species. The Division informed the Operator of the requirement to remove the trees to prevent spreading. Additionally, the Division observed invasive weeds across most of the permit area, including bindweed, kochia, and thistle. The operator must conduct weed control in accordance with Rule 3.1.10(6) and submit evidence of weed control to the Division prior to seeking a release of any portion of the permit area.

Roads:

The mining permit covers two parcels. The Division observed a newly installed access road in the center of the permit area, running east/west along the boundary between the two parcels. The access road is not part of the approved reclamation plan. On August 14, 2023, the Operator submitted a Technical Revision (TR10) to add the access road to the final reclamation plan. The Division will review the application and make a decision on the application by September 13, 2023. The Division observed a vegetated berm on the south side of the road. Grasses are starting to fill in the bare spots on the berm. Recommend weed control and repair of erosion gullies as necessary.

Financial Warranty

The Division currently holds a financial warranty in the amount of \$31,403.00. This financial warranty was last calculated in 2020 and includes re-seeding costs and weed control across the entire permit area. Division will review the cost estimate during the review of Technical Revision 9 and determine if the bond is adequate to complete reclamation.

Based on observations made during this inspection the request for final/full acreage release of 70.50 acres will be denied due to incomplete reclamation. Notice of the Division's decision regarding the release request will be sent separately.

Photographs taken during inspection are attached. Please contact Nikie Gagnon (303)866-3567 ext. 8126 or email at nikie.gagnon@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1: Looking northwest at the storage area near the front entrance area.



Photo 2: Looking north from entrance. Weeds and bare ground observed in this area.



Photo 3: Stockpiled material stored near entrance to mine site.



Photo 4: Looking south at mobile office and equipment stored along the western permit boundary.



Photo 5: Looking south at the swale in the northern parcel. Arrows point to Russian olive trees. Bindweed and other invasive weeds observed along the banks.



Photo 6: Looking north along the swale in the northern parcel. Vegetation is well established here. Recommend weed control and removal of Russian olive.



Photo 7: Thistles observed on the bank of the swale.



Photo 8: Northern parcel adjacent to new road that bisects the site. Weedy area with inadequate revegetation.



Photo 9: Northern parcel looking southeast at compacted ground with patchy vegetation.



Photo 10: Northern parcel looking north from east side of the swale. Sparse vegetation and bare ground in this area.



Photo 11: Northern parcel looking east at area with adequate revegetation.



Photo 12: Northern parcel looking east from the eastern end of the new road. Arrows point to area of adequate revegetation.



Photo 13: Newly constructed gravel road observed splitting the permit area. Operator submitted TR10 on August 14, 2023 to add the road to reclamation plan.



Photo 14: Revegetated berm on south side of road.



Photo 15: South side of berm along the access road.



Photo 16: Looking southwest across southern permit area. Russian olive trees in swale.



Photo 17: Looking south at swale in southern permit area.



Photo 18: Looking southwest across pasture in southern permit area.



Photo 19: Looking north from the southwestern corner of the permit area. Vegetated berm runs along the Brighton Rd. Recommend weed control on berm and dense thistle patch growing along the swale in this area.



Photo 20: Looking north across the pasture. Arrows point to llamas grazing in the field.



Google earth imagery 05/2023. Approximate permit boundary.

Inspection Contact Address

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