




MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety 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: Empire Pit	MINE/PROSPECTING ID#: M-1977-534	MINERAL: Sand and gravel	COUNTY: Clear Creek
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter Hays	INSP. DATE: June 30, 2022	INSP. TIME: 10:00
OPERATOR: City of Golden	OPERATOR REPRESENTATIVE: Anne Beierle	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$0.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: July 20, 2022	

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>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>N</u>	(TS) TOPSOIL----- <u>Y</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>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 Empire Pit was inspected by Peter Hays with the Division of Reclamation, Mining and Safety to observe the excavation work associated with technical revision no 4. (TR4). The site was last inspected by the Division on July 13, 2021. Ms. Anne Beierle and Mr. John Hardy with the City of Golden were present during the inspection.

Technical revision no. 4 (TR4) was approved by the Division on October 7, 2021. The technical revision revised the Reclamation Plan to address a 28.675 square foot (0.65 acres) area of high alkalinity (project area) located at the western boundary of the remaining 28.50 acre site. The Division released 110.08 acres of the original 138.58 acre site under acreage reduction no. 1 (AR1) on October 31, 2017.

The revised Reclamation Plan states the Operator will excavate and remove 24 inches of material from the project area instead of the 30 inches approved in TR3. A geosynthetic clay liner will be installed at the base of the excavation instead of the 6 inch clay layer approved in TR3. A combination of subsoil and topsoil will be placed on the liner to provide sufficient depth for the native grasses roots. The subsoil will be replaced at 18 inches in depth and will be inert. The topsoil will be replaced at a depth of 6 inches. The requirement to test the soils and submit the results to the Division prior to placement in the project area was removed under TR4. Additionally, an access road along the west fence line of the pasture and a turnaround area south of the former explosives building will be constructed with 6 inches of road base material at the request of the property owners.

The excavation work was approximately 80 percent complete at the time of the inspection. The removed material was placed on the City of Golden owned property located west of the project area. The material will be spread across the existing laydown area on the property. Stockpiles of topsoil, subsoil and road base were observed on the City of Golden property. Rolls of geosynthetic clay liner were also observed during the inspection.

The contractor estimated the work associated with TR4 would be completed in 2 weeks. The project area will be surveyed and as-built drawings will be created and submitted to the Division. The Division will attempt to inspect the site again at the conclusion of the work.

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303.866.3567 x 8124, or by email at peter.hays@state.co.us.

Inspection Contact Address

Anne Beierle
City of Golden
Director of Public Works
Golden, CO 80401

Ec: Jared Ebert, DRMS

PHOTOGRAPHS



View of the road construction from the north end looking south



View of the excavation in the project area



View of stockpiles of topsoil, overburden and road base



View of geosynthetic clay liner rolls



View of the turnaround area



View of the excavation in the project area