




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: Harold Eichman Gravel Pit	MINE/PROSPECTING ID#: M-1985-105	MINERAL: Sand and gravel	COUNTY: Lincoln
INSPECTION TYPE: Monitoring	INSPECTOR(S): Daniel Cunningham	INSP. DATE: January 28, 2020	INSP. TIME: 10:30
OPERATOR: Lincoln County	OPERATOR REPRESENTATIVE: Fred Lundy	TYPE OF OPERATION: 110c - Construction Limited Impact	

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: February 6, 2020

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: Hydrologic Balance

PROBLEM: Standing water was noted in the bottom of the mine pit. This water is likely a mixture of impounded surface water and possibly exposed groundwater. The Division has no evidence that the operator has a valid well permit, substitute water supply plan, or approved water augmentation plan for the exposed groundwater at the site or surface water impounded for greater than 72 hours. This is a problem related to 34-32.5-116(4)(h) of the Colorado Revised Statutes and 3.1.6(1)(a) of the Construction Materials Rules and Regulations governing injury to existing water rights.

CORRECTIVE ACTIONS: The Operator shall demonstrate that the operation is in compliance with the Office of the State Engineer, show evidence that the Operator is taking measures to bring the site into compliance with the SEO, backfill the pits to at least two feet above the groundwater surface or ensure the mine pit positively drains by the corrective action date specified. **CORRECTIVE ACTION DUE DATE: 4/29/20**

OBSERVATIONS

This was a routine monitoring inspection conducted at the Harold Eichman Gravel Pit by DRMS representative DJ Cunningham. Fred Lundy represented Lincoln County during the inspection. This site is an active, 9.9 acre, 110c permit held by Lincoln County. Approximately 7 acres of the permit area has been disturbed to date with the remainder of the site undisturbed. The site was not active at the time of the inspection.

Erosional issues (**Photo: 2**) were noted around the stockpiles at the mining site. However, no damage to offsite area was noted from the erosion. It is the recommendation of the Division that the stockpiles be sloped to a 2:1 and a berm be placed around the stockpile area to help prevent sediment from moving to offsite areas.

Standing water (**Photo: 3**) was noted on the bottom of the pit floor during this inspection. This was previously mentioned in the 2016 inspection report. This water is likely a mixture of surface and groundwater and appears to remain in the pit for longer than 72 hours. The Operator will need to contact the Division of Water Resources (State Engineer's Office) and ensure they are in compliance with their rules and regulations regarding impacts to water rights. The Operator is not approved to expose groundwater at the site or impound surface water for greater than 72 hours. Given this, the operator will either need to backfill the pit excavation to at least two feet above the groundwater table, conduct earthwork so that the affected lands positively drain without causing off-site sedimentation; or submit documentation that they have obtained a valid well permit and substitute water supply plan or permanent plan for augmentation from the Colorado Division of Water Resources. At this time, the Division is citing this as a problem at the beginning of the report.

The site identification sign was posted at the mine site entrance and the permit boundary was marked. Slopes were originally mined at a 3H:1V or greater slope. It was noted during the inspection and due to erosion of the area, the slopes have not been maintained at a 3H:1V ratio (**Photo: 4**) and will need to be reshaped or a technical revision will need to be submitted to reflect the difference in the mining plan.

PHOTOGRAPHS



Photo 1: Entrance sign



Photo 2: Erosional issues at stockpile



Photo 3: Standing water in pit floor



Photo 4: Erosion on the slopes of the mine

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

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

Inspection Contact Address

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Enclosure

CC: