



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
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: Leone Huerfano Gravel Pit	MINE/PROSPECTING ID#: M-2010-004	MINERAL: Gravel and sand	COUNTY: Huerfano
INSPECTION TYPE: Monitoring	INSPECTOR(S): Tyler V. O'Donnell	INSP. DATE: January 14, 2016	INSP. TIME: 15:15
OPERATOR: Leone Sand & Gravel LLC	OPERATOR REPRESENTATIVE: Frank Leone	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$61,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Windy	INSPECTOR'S SIGNATURE: <i>Tyler O'Donnell</i>	SIGNATURE DATE: May 11, 2016

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>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>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SW) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>Y</u>

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

OBSERVATIONS

This normal routine monitoring inspection was conducted by Tyler O'Donnell of the Division of Reclamation, Mining and Safety (Division). Leone Sand & Gravel LLC (Operator), was represented by Frank Leone during the inspection.

The Leone Huerfano Gravel Pit is located in Huerfano County approximately 11 miles northwest of Walsenburg, Colorado. The Leone Huerfano Gravel Pit is a 185.67-acre 112c Construction Materials Reclamation Permit with a maximum allowed disturbance of 22.5 acres. The primary commodity being mined at the site is sand and gravel. The 112c Construction Materials Reclamation Permit was approved with conditions and the permit was issued in July 2010. The Operator complied with the conditional approval on June 23, 2010. The approved post-mining land use is rangeland. The mine site was surrounded by the following land uses: residential, agricultural, and rangeland.

No problems or possible violations were observed during the inspection. During the inspection, the sky was slightly overcast. There was partial snow cover, covering approximately 5 to 10% of the ground. The site was not active during the inspection, it appears that the site sees frequent mining activities. At the present time it appears that the mining operation had affected approximately 15 acres. Most of the mining is taking place along the western extent of the affected lands. The eastern portion of the affected lands has been used to stockpile and process material. The Operator has been conducting partial concurrent reclamation. The majority of the area previously affected by the mining operation, has been graded to approximately 3H:1V or flatter. The graded areas have not had topsoil spread over them, the graded areas have begun to support volunteer vegetation, composed primarily of annual weeds and native grasses.

Acid And Toxic Materials:

There appeared to be an adequate secondary containment structure built around the petroleum storage tanks. The secondary containment structure appeared to have enough volume to contain all contents of the fuel tank and, plus an additional 10% or more capacity beyond the total capacity of stored petroleum products.

Backfilling and Grading:

The Operator has graded the majority of the pit to 3H:1V or flatter. There were several stockpiles of product scattered throughout the eastern portion of the affected area. There were several small active mining faces in Phase 1 along the western portion of the current affected land. The active working faces had an average height of approximately 10 feet. The active working faces had an approximant slope of 1H:1V to just flatter than 1.5H:1V. When completing final reclamation, the Operator will need to grade all slopes to 3H:1V or flatter to comply with the approved reclamation plan.

Financial Warranty:

The current amount of financial warranty the Operator has on deposit with the State is \$61,000. The reclamation cost estimate for this site was updated during the file review for this inspection. It was determined that the current required financial warranty amount is adequate.

Hydrologic Balance:

The current pit excavation is located on a gravel terrace just south of the Huerfano River. The bottom of the pit was mostly dry. No exposed groundwater was observed during the inspection. There were a few low laying areas that had damp soil and/or a little standing captured stormwater. When conducting final grading for reclamation the Operator will need to try to control surface drainage to create as much positive drainage as possible. There was no evidence of excessive erosion. There appeared to be no significant impacts to the prevailing hydrologic balance.

Gen. Compliance With Mine Plan:

The operation appeared to be following the approved mine plan. All mining activity appeared to be within the approved permit boundary. The majority of the affected land was located in Phase 1, small portions of phase 2 had been affected by stockpiling and the haul road. It appears that the Operator has been maintaining the required setback from the San Isabel Overhead powerline right of way.

Roads:

The haul road and access roads were stable and well maintained.

Reclamation Success:

The Operator has successfully backfilled and partially graded portions of the pit walls to 3H:1V or just a little flatter along the old powerline right of way. Portions of the disturbed land have begun to fill in with volunteer vegetation.

Revegetation:

There was plant growth on the stockpiles and throughout the rest of the affected area. The growth in the affected area appeared to be volunteer vegetation, comprised of native vegetation, native grasses and a few annual weeds. No noxious weeds were observed during the inspection.

Erosion/Sedimentation:

There was no evidence of excessive erosion (rills, gullies, or sediment fans). Some of the graded slopes have small rills beginning to form on the slopes

Signs and Markers:

A mine I.D. sign was located at the entrance to the mine site. The permit boundary was marked by t-posts.

Topsoil:

There were several stockpiles of topsoil scattered around phases 1 and 2. The topsoil stockpiles have begun to fill in with thin vegetation. Vegetative cover on the topsoil stockpiles is composed of primarily annual weeds and native vegetation. The Operator is encouraged to establish vegetative cover on all topsoil stockpiles that remain longer than a growing season. The vegetative cover on the topsoil stockpiles will help prevent erosion.

Inspection Contact Address

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2400 E Main Street
Trinidad, CO 81082

CC: Wally Erickson, DRMS

PHOTOGRAPHS



Photo 1: Active mining area north of the current powerline right of way. Slopes were graded to 3H:1V or flatter.

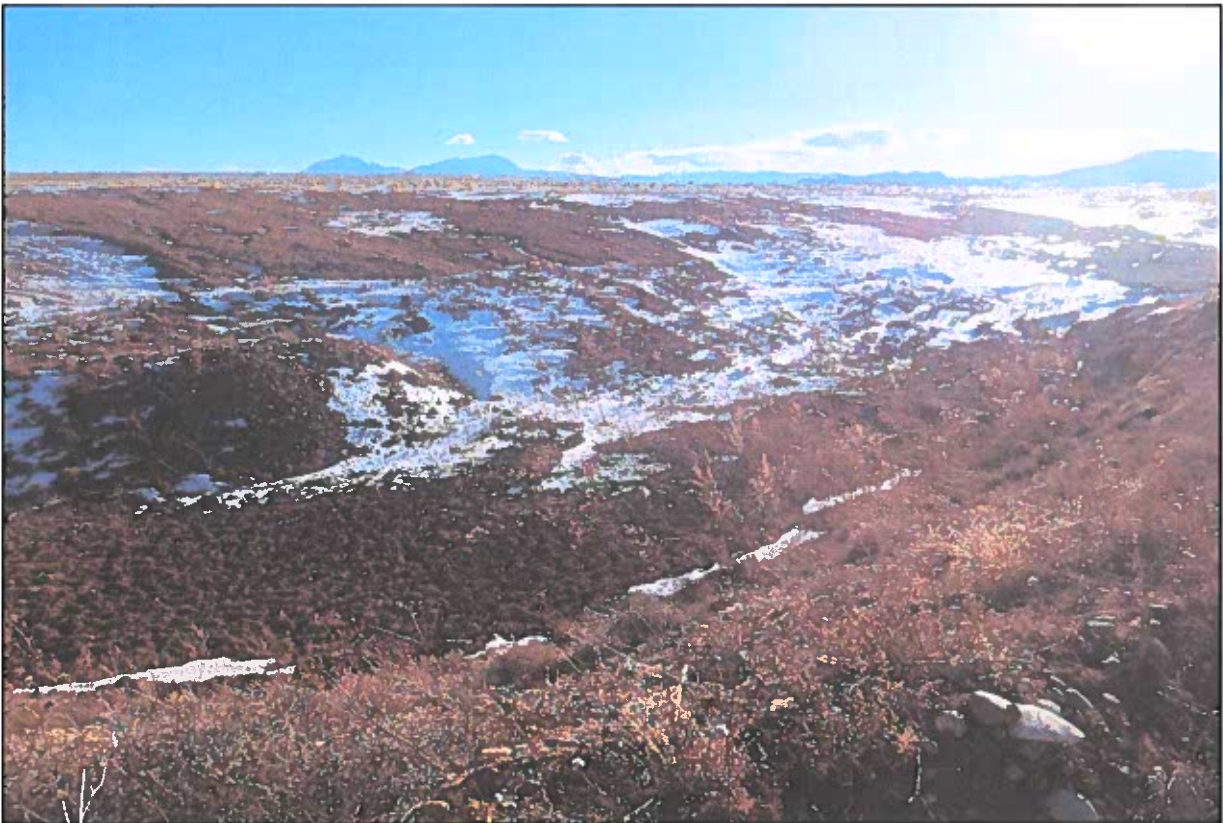


Photo 2: Active mining area south of the current powerline right of way. Slopes were graded to 3H:1V or flatter. There was a small portion at the toe of the slope that appeared to be damp from captured stormwater.



Photo 3: Topsoil stockpiles along the northern portion of Phase 1.



Photo 4: Various product stockpiles.

