



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: Lawrence Pit	MINE/PROSPECTING ID#: M-1974-041	MINERAL: Sand and gravel	COUNTY: Douglas
INSPECTION TYPE: Monitoring	INSPECTOR(S): Tyler V. O'Donnell	INSP. DATE: December 8, 2015	INSP. TIME: 09:00
OPERATOR: Lawrence Construction Company, Inc.	OPERATOR REPRESENTATIVE: Dave Morris	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$294,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: <i>Tyler O'Donnell</i>	SIGNATURE DATE: February 25, 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>Y</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>N</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 routine monitoring inspection was conducted by Tyler O'Donnell of the Division of Reclamation, Mining and Safety (Division). Lawrence Construction Company, Inc., the Operator, was represented by Dave Morris during the inspection.

The Lawrence Pit located approximately 4 miles southeast of Chatfield Reservoir, just west of Plume Creek. The Lawrence Pit is a 35-acre 112c Construction Materials Reclamation Permit. The primary commodity being mined at the site is sand and gravel. The mine site was surrounded by the following land uses: residential, industrial/commercial, agricultural, and rangeland. The approved post-mining land use is recreation.

During the inspection, the sky was slightly overcast and the ground was dry. The site was not active during the inspection, it appears that the site has been inactive for a long period of time. At the present time it appears that the mining operation had affected the majority of the permit area located west of Plum Creek. Currently the Operator is using the site to store construction equipment. The Operator is also recycling concrete and asphalt, approved through Technical Revision No. 1 (TR-01).

Backfilling and Grading:

The Operator has mined the pit from northeast to the west and south, leaving a highwall along the western and southern portions of the site. The pit primarily daylights to the north and east into the flood play of Plume Creek. There were several stockpiles of product, concrete and asphalt scattered throughout the affected area. There was a highwall along the entire length of the western pit boundary and the majority of the southern pit boundary. The western highwall had areas where broken up concrete had been end dumped off the highwall. The highwall had an average height of approximately 35 feet. The highwall had a slope ranging from near vertical to 2H: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 \$294,000.00. 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 site daylights to the north and east into the floodplain of Plum Creek. The bottom of the pit was mostly dry, there were a few muddy patches. The Division did not observe any impounded storm water or exposed groundwater. All storm water on the affected lands drain into the pit. 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.

Roads:

The access road was stable and well maintained.

Revegetation:

There was some plant growth on the stockpiles and throughout the rest of the disturbed area. Very little vegetation growth was observed on the pit floor. The growth observed in the disturbed area appeared to be volunteer vegetation, comprised of grasses and a few annual weeds. There were a handful of mature Russian Olive trees

scattered throughout the pit. Russian Olive trees are a list B species on the Colorado Noxious Weed list. At the present time the presence of Russian Olive trees will not be cited as a problem due to the limited number observed trees. The Operator will need to take measures to prevent the spread of the trees, and the trees will need to be eradicated during final reclamation. There were several other species of noxious weeds observed within the affected area. The Division has attached the 11th edition of the Noxious Weeds of Colorado Identification book. The Operator is advised to continue to monitor and treat all noxious weeds as the weeds appear within the permit boundary.

Erosion/Sedimentation:

There was one large gully observed in the southern highwall. The gully drains into the bottom of the pit. The gully will need to be repaired during final reclamation. There was no other evidence of excessive erosion (rills, gullies, or sediment fans).

Signs and Markers:

A mine I.D. sign was located at the entrance to the mine site. The permit boundary was marked by posts and a chain-link fence.

Topsoil:

There was a well-vegetated topsoil stockpile located near the southwest corner of the permitted site. It appears the topsoil stockpile has been idle for a while, no recent heavy equipment marks were observed in the stockpile. There appeared to be an adequate amount of topsoil to complete the approved reclamation plan.

CONCLUSION

During the inspection the Operator's representative and the Division discussed the history of the permit and the requirements of the Reclamation Permit. The Division discussed the following paths forward for the permit, the Operator can do one of the following:

- 1) Apply for Temporary Cessation (enclosed form) and resume mining when market conditions improve.
- 2) Complete the approved reclamation Plan.
- 3) File a Permit Amendment Application and increase the size of the pit.
- 4) File a Permit Amendment Application change the post mining land use to industrial commercial and complete reclamation and terminate the Permit.

Inspection Contact Address

Dave Morris
Lawrence Construction Company, Inc.
9002 N Moore Road
Littleton, CO 80125

Enclosure: 11th Edition Noxious Weeds of Colorado
Temporary Cessation Request form

cc: Wally Erickson, DRMS

PHOTOGRAPHS



Photograph 1: Photo Take from on top of the highwall, Russian Olive trees circled in the red dashed line.



Photograph 2: Photo Take from the pit floor, large stockpile of end dumped broken up concrete.



Photograph 3: Photo Take from the pit floor, southern highwall in the background.



Photograph 4: Well Vegetated topsoil stockpile.



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 Phone (303) 866-3567

TEMPORARY CESSATION NOTICE

(mining activities temporarily cease for more than a one-year period)

Today's date: _____

Permit number: M- _____ Site name: _____

County: _____ TC number: _____ (DRMS use only)

Permittee making request: _____

Operator (if other than permittee): _____

Date the initial five-year period of Temporary Cessation begins: _____

Reason mining activities (materials extraction, processing, hauling) have ceased:

Description of plan to resume operations:

Description of plan to meet performance standards of Rule 3.1 during temporary cessation (reclamation, weed control, monitoring, signs, markers, etc.):

Number of affected acres: _____

Amount of financial warranty (bond) on deposit with the state: \$ _____

Required fees for Temporary Cessation by permit type (please mark the correct fee and submit it with this request for Temporary Cessation):

<u>Permit type</u>	<u>Required TR fee</u>	<u>Submitted</u> (mark only one)
Construction Materials	\$144	<input type="checkbox"/>
Hard Rock/ Metal Mining	\$115	<input type="checkbox"/>

The above-referenced permit has entered Temporary Cessation. This site has reserves remaining to be mined.

Operator's signature: _____

Please note:

1. While in Temporary Cessation, the operator must continue to comply with the Rules and Act, including maintaining the site, and must continue to file an annual report and annual fee.