



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: Fredstrom Resource	MINE/PROSPECTING ID#: M-2001-016	MINERAL: Sand and gravel	COUNTY: Boulder
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Patrick Lennberg	INSP. DATE: August 26, 2022	INSP. TIME: 11:30
OPERATOR: Holcim - WCR, Inc.	OPERATOR REPRESENTATIVE: None	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$1,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 31, 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>N</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>N</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>Y</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>Y</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

This was a surety-related inspection of the Fredstrom Resource (M2001-016) conducted by Patrick Lennberg of the Division of Reclamation, Mining, and Safety (Division/DRMS) in response to a Succession of Operators application (Revision No. SO-2) that was received by the Division on June 21, 2022 to transfer the permit from Aggregate Industries – WCR, Inc. to Holcim – WCR, Inc. The Division approved SO-2 on July 29, 2022. A representative from successor operator, Holcim – WCR, Inc., was not present during the inspection. The site was previously inspected by the Division on November 5, 2019.

The Fredstrom Resource is located in Boulder County 2 miles west of Longmont, Colorado and is accessed from the west off N 75th Street. The site is bisected by St. Vrain Creek which flows eastward across the site. The approved post-mining land use is wildlife habitat. A mine sign was observed at the entrance to the mine as required by Rule 3.1.12. It should be noted the mine sign needs to be updated to reflect the new permittee.

This is a 112c operation permitted for 266 acres to mine sand and gravel. Mining activities at the site have not begun yet and it is unknown if/when mining may be initiated. The operation will mine the site in six primary phases, beginning in the areas south of the creek (Phases 1-2), then moving into the areas north of the creek (Phases 3-6). The operation will mine the site in pods ranging in size from 13-33 acres. No more than two pods will be mined at any time. A total of four pods will be developed south of the creek, and a total of five pods will be developed north of the creek. The maximum mining depth will be approximately 28 feet (0-5 feet overburden + 8-23 feet deposit). Areas to be mined will be dewatered prior to excavation, and the water ultimately discharged into the creek under a CDPHE discharge permit. The operator estimates 0.5 – 1.0 acre of groundwater will be exposed on site at any time (via dewatering trenches and settling ponds). Overburden and topsoil salvaged during operations will be stored separately along the perimeter of the active pit. Mined material will be transported via a conveyor system to an on-site processing plant located north of the creek. The processing plant will include mobile processing equipment, material stockpiles, a wash pond, and settling ponds.

The approved reclamation plan includes leaving a series of ponds and wetlands for open space preservation. Wetlands will be created by allowing the wash basins to fill in with silts to an elevation slightly above the groundwater level, and by grading the edge of the ponds adjacent to the creek to create shoreline benches. The operation will scarify the bare mineral soil in late spring to help emulate the effects of flooding and stimulate the establishment of native trees. These wetlands will extend the riparian area along the creek corridor and enhance the wildlife habitat. The operation will preserve the majority of the existing riparian area. Topsoil will be replaced on disturbed land at a minimum depth of 12 inches, including on pond slopes above the anticipated high water line. All disturbed land will be graded to 3H:1V or flatter. Pond slopes will be graded to 4H:1V above and 3H:1V below the high water line. Disturbed land will be revegetated with an upland or wetland seed mixture.

According to the approved permit, the following items must be addressed prior to commencement of operations:

- 1) At least one year prior to operations, continue the monthly groundwater level monitoring.
- 2) At least 60 days prior to operations, submit a Surety Increase request with an updated bond estimate for the proposed maximum disturbance.

- 3) At least 30 days prior to operations, submit a Technical Revision to address the presence of Preble's at the site (in consultation with the county and USFWS).
- 4) Prior to operations (including any disturbances and/or development) occurring within the 100 year floodplain or within 400 feet of the top bank of St. Vrain Creek, whichever is farther, submit an approvable Flood Control/Mitigation Plan for the site.
- 5) Prior to operations, provide evidence that a Disposal of Dredge and Fill Material (404) Permit has been obtained for the site.
- 6) Prior to operations, provide evidence that a valid well permit and SWSP is in place for the proposed groundwater exposure at the site.
- 7) Prior to relocating one of the existing ditches within the permit area, maintain a 200 foot setback from the ditch until a structure agreement has been reached with the ditch owner and a copy provided to the Division.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg (303)866-3567 ext. 8114 or email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

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PHOTOGRAPHS



Photo 1: Mine sign at entrance to permit



Photo 2: Looking east from the western permit boundary



Photo 3: Looking southwest from inside the permit boundary, trees are along the St Vrain Crk



Photo 4: Looking north from inside the permit boundary



Photo 5: Looking east across the permit area



Photo 6: Looking southeast across the permit area