




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: Hokestra Gravel Pit	MINE/PROSPECTING ID#: M-1980-149	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Monitoring	INSPECTOR(S): Peter S. Hays	INSP. DATE: February 12, 2016	INSP. TIME: 13:30
OPERATOR: Weld County	OPERATOR REPRESENTATIVE: Valarie Mino	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: March 10, 2016

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: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Operator committed to providing baseline groundwater monitoring plan data to the Division prior to the installation of the liners (clay and slurry walls). The Division has not received the baseline data.

CORRECTIVE ACTIONS: The Operator shall provide the baseline groundwater monitoring data for the Division's file by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/09/16

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Operator committed to submit the monthly monitoring data to the Division on a quarterly basis following the submittal of the initial baseline groundwater data. The Division has not received the quarterly groundwater data.

CORRECTIVE ACTIONS: The Operator shall provide all available groundwater monitoring data for the Division's file by the corrective action date and commit to provide the monthly monitoring data with the annual report starting with the 2017 Annual Report.

CORRECTIVE ACTION DUE DATE: 5/09/16

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Operator committed to install a perimeter drain along the western side of the site, adjacent to the clay liner in Phase 2. The Division was not notified the perimeter drain was installed prior to the installation of the clay liner and has not received as-built drawings for the installed

perimeter drain.

CORRECTIVE ACTIONS: The Operator shall provide as-built drawings for the perimeter drain along the western side of Phase 2 by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/09/16

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Operator committed to install a perimeter drain along the southern edge of the site, along the existing alignment of Firestone Blvd. The Division was not notified the perimeter drain was installed prior to the installation of the clay liner and slurry walls and has not received as-built drawings for the installed perimeter drain.

CORRECTIVE ACTIONS: The Operator shall provide as-built drawings for the perimeter drain along the southern edge of the site by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/09/16

INSPECTION TOPIC: Availability Of Records

PROBLEM/POSSIBLE VIOLATION: Problem: The Operator committed to supply copies of the agreements with the gas line companies for the slurry wall crossing with the gas lines in the Phases 3 and 4 during construction of the slurry walls. The Division did not received copies of the agreements with the gas line companies during the construction of the Phases 3 and 4 slurry walls.

CORRECTIVE ACTIONS: The Operator shall provide copies of the crossing agreements with the gas line companies in Phases 3 and 4 by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/09/16

OBSERVATIONS

The Hokestra Pit was inspected by Peter Hays with the Division of Reclamation, Mining and Safety (Division/DRMS) as part of the Division's monitoring inspection program. The site was previously inspected by the Division on March 9, 2012 for acreage release no. 5 (AR-05). Ms. Valerie Mino with Weld County was present during the inspection. The site access was limited due to the wet ground conditions at the site.

The site is permitted for 131.60 acres and is divided into four (4) remaining phases; Phase 2, Phase 3, Phase 4 and the parcel east of Phase 3 containing 2 ponds.

Phase 2 is located in the northwest corner of the site and consists of a clay lined reservoir. The Operator has not submitted the Office of the State Engineer (SEO) approval for the clay liner to the Division. The upland areas around the reservoir will be seeded this spring according to the Operator. The Phase is in the process of being sold for water storage to the City of Firestone. The Phase was dry and the north slope of the Phase was reinforced with riprap. The riprap is required as part of the flood mitigation measures for the site. The Division did not observed the river bank reinforcement adjacent to Phase 2. The required spillways between Phase 2 and 4 and Phase 4 and the St. Vrain River have not been constructed.

Phase 3 is located in the southeast corner of the site. The Phase was recently lined with a slurry wall. The Operator has not submitted the SEO approval for the slurry wall to the Division. The location of the slurry wall centerline was marked on all sides with white posts. The Phase has been stripped of topsoil and overburden. Mining excavation has not started in the Phase. The ponds to the east of the Phase will need to be drained before Phase 3 is mined, since the two areas are surrounded by a shared slurry wall.

Phase 4 is located east of Phase 2 and north of Phase 3 in the northeast corner of the site. The Phase was recently lined with a slurry wall. The Operator has not submitted the SEO approval for the slurry wall to the Division. The location of the slurry wall centerline was marked on all sides with white posts. The Phase was actively mining and dewatering. The mining excavation is progressing from the north to south. A processing plant and stockpile storage area was observed in the southern portion of the Phase.

The parcel east of Phase 3 was mined and reclaimed to developed water resource years ago. The Operator has not submitted the SEO approval for the slurry wall to the Division. The Division will require proof of SEO approval for the slurry wall prior to consideration of future release requests. The parcel slopes and vegetation could not be evaluated due to limited access of the area.

As cited as problems, the Operator committed to the following items during the amendment No. 3 application process which have not been completed according to the Division's files:

The Operator committed to providing baseline groundwater monitoring plan data to the Division prior to the installation of the liners (clay and slurry walls). The Division has not received the baseline data to date. The Operator shall provide the baseline groundwater monitoring data for the Division's file.

The Operator committed to submit the monthly monitoring data to the Division on a quarterly basis following the submittal of the initial baseline groundwater data. The Division has not received the quarterly groundwater data. The Operator shall provide all available groundwater monitoring data for the Division's file and commit to provide the monthly monitoring data with the annual report starting with the 2017 Annual Report.

The Operator committed to install a perimeter drain along the western side of the site, adjacent to the clay liner in Phase 2. The Division was not notified the perimeter drain was installed prior to the installation of the clay liner and has not received as-built drawings for the installed perimeter drain. The Operator shall provide as-built drawings for the perimeter drain along the western side of Phase 2.

The Operator committed to install a perimeter drain along the southern edge of the site, along the existing alignment of Firestone Blvd. The Division was not notified the perimeter drain was installed prior to the installation of the clay liner and slurry walls and has not received as-built drawings for the installed perimeter drain. The Operator shall provide as-built drawings for the perimeter drain along the southern edge of the site.

The Operator committed to supply copies of the agreements with the gas line companies for the slurry wall crossing with the gas lines in the Phases 3 and 4 during construction of the slurry walls. The Division did not received copies of the agreements with the gas line companies during the construction of the Phases 3 and 4 slurry walls. The Operator shall provide copies of the crossing agreements with the gas line companies in Phases 3 and 4.

The Division will require the Operator to verify the required 4H:1V slopes of the reservoirs by submitting survey data verifying the grading prior to Division consideration of any future final or partial release requests at the site, if the reservoir are filled with water at the time of the release inspection.

Photographs taken during the inspection are attached.

PHOTOGRAPHS



Hokestra Pit Mine Sign



Looking east from the SW corner of Phase 3



Looking NE from the SW corner of Phase 3



Looking north from the SE corner of Phase 2



Looking NW from the SE corner of Phase 2



Looking west from the SE corner of Phase 2



Looking south from middle of Phase 4



Looking north from middle of Phase 4

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>PB</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>N</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>N</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SW) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>N</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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