



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.

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| MINE NAME: Leyden Pit | MINE/PROSPECTING ID#: M-1983-139 | MINERAL: Sand and gravel | COUNTY: Jefferson |
| INSPECTION TYPE: Monitoring | INSPECTOR(S): Tom Kaldenbach | INSP. DATE: July 2, 2013 | INSP. TIME: 09:40 |
| OPERATOR: Pioneer Sand Company, Inc. | OPERATOR REPRESENTATIVE: Wayne Brantley | TYPE OF OPERATION: 112c - Construction Regular Operation | |

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| 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: <i>Tom Kaldenbach</i> | SIGNATURE DATE: October 7, 2013 |

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.

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| (AR) RECORDS----- <u>NA</u> | (FN) FINANCIAL WARRANTY----- <u>Y</u> | (RD) ROADS----- <u>Y</u> |
| (HB) HYDROLOGIC BALANCE----- <u>Y</u> | (BG) BACKFILL & GRADING----- <u>N</u> | (EX) EXPLOSIVES----- <u>NA</u> |
| (PW) PROCESSING WASTE/TAILING---- <u>Y</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> | (SP) STORM WATER MGT PLAN---- <u>NA</u> | (SB) COMPLETE INSP---- <u>NA</u> |
| (ES) OVERBURDEN/DEV. WASTE----- <u>NA</u> | (SC) EROSION/SEDIMENTATION--- <u>Y</u> | (RS) RECL PLAN/COMP-- <u>Y</u> |
| (AT) ACID OR TOXIC MATERIALS----- <u>NA</u> | (OD) OFF-SITE DAMAGE----- <u>NA</u> | (ST) STIPULATIONS----- <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

OBSERVATIONS

This was an inspection conducted by Tom Kaldenbach of DRMS. The operator was represented by Wayne Brantley of Pioneer Sand Co. James McCarthy, representing the City of Arvada, also was along on the inspection. DRMS recently received a Succession of Operator application to transfer the site to City of Arvada, the landowner. The ground was dry and the weather was clear.

Signs and Markers

A mine i.d. sign was properly displayed at the mine entrance gate. The affected area was marked by fences.

Hydrologic Balance

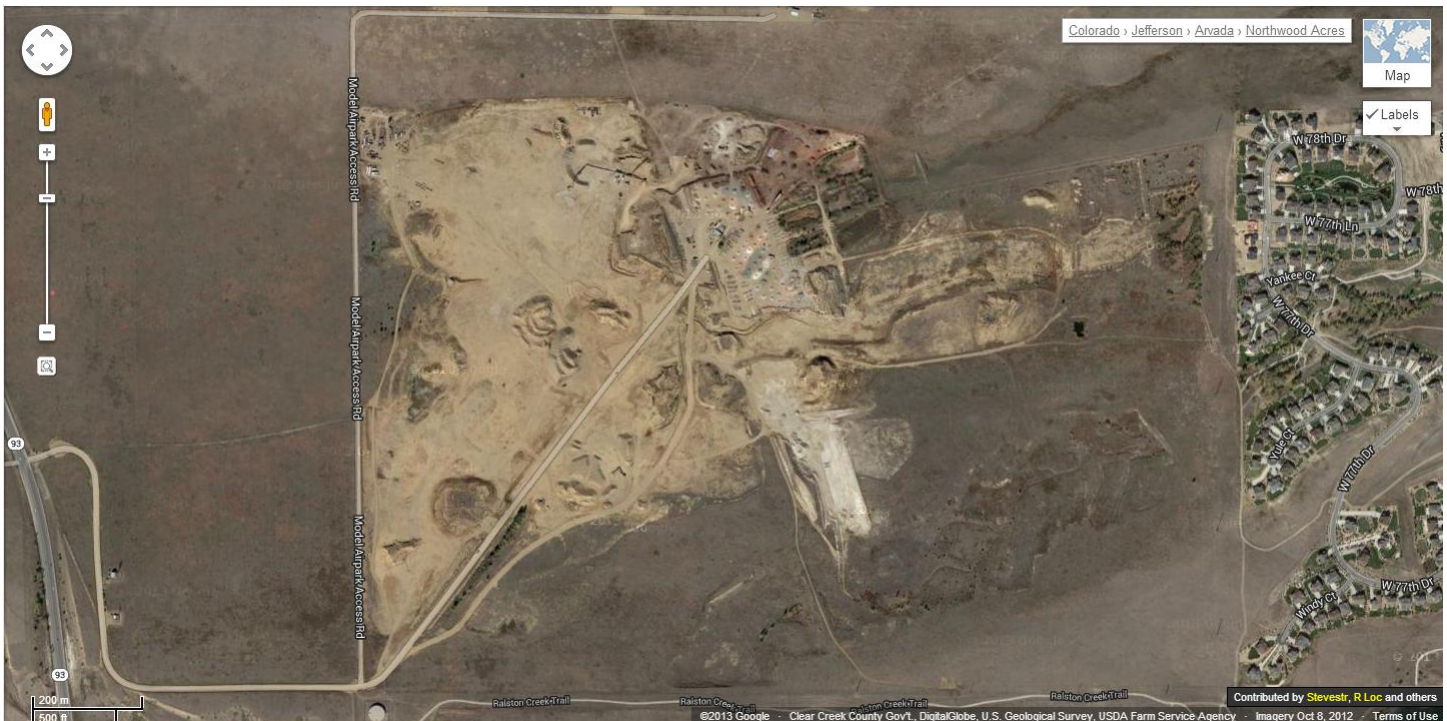
Ditches along roads on the site were in good shape.

There were no signs of excessive erosion on the site.

Backfilling and Grading

The site appeared during the inspection much as it does in the Google Earth image from October 8, 2012, shown below. There are several material stockpiles on the site, mainly in the central and western portion of the permit area. Product stockpiles for sales are located near the office near the center of the site. City of Arvada plans to use stockpiles on the east side of the site for filling in low areas there for mosquito control. Other stockpiles will be graded out and then the site will be revegetated. During the inspection, the need for a Technical Revision was discussed that will be submitted after the permit is transferred to City of Arvada. The Technical Revision will inventory stockpiles that need regrading.

Regrading was in progress on the embankment of a sediment control pond.



On-Site Facilities

Fuel was stored in secondary containment structures.

General Mine Plan Compliance

The operation appeared to be following the mine plan with mining nearly complete. The representative from City of Arvada explained that no mining will be conducted after the site is transferred to them, and most reclamation will be completed in spring of 2014.

There were no signs of off-site damage around the perimeter of the site.

Revegetation

City of Arvada is managing the weed control plan on the site. Other than some areas of thistle on the east side of the site, no weed problems were found. The thistle will be eradicated through the on-going weed control effort.

Financial Warranty (Reclamation Bond)

The operator had financial warranty in the amount of \$577,355 on deposit with the State at the time of the inspection. As a government entity the successor operator, City of Arvada, will not be required to provide financial warranty.

PHOTOGRAPHS



Photo 1 – Equipment on west side of site.



Photo 2 – Fuel storage tank inside secondary containment berm.



Photo 3 - Sign at site entrance gate.

Inspection Contact Address

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cc:

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