



**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.

<b>MINE NAME:</b> Steamboat Sand and Gravel Pit	<b>MINE/PROSPECTING ID#:</b> M-2001-090	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Routt
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Amy C. Yeldell	<b>INSP. DATE:</b> August 6, 2015	<b>INSP. TIME:</b> 08:00
<b>OPERATOR:</b> Alpine Aggregates, LLC	<b>OPERATOR REPRESENTATIVE:</b> Ed MacArthur	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$422,000.00
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> <i>Amy Yeldell</i>	<b>SIGNATURE DATE:</b> August 21, 2015

**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>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</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>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SW) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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 inspection was conducted as part of the Colorado Division of Reclamation, Mining and Safety normal monitoring program. Steamboat Sand and Gravel Pit is a 112c permitted site that includes a total of 110 permitted acres of which approximately 16 acres are currently disturbed. It is located approximately 8 miles south of Steamboat Springs, CO and is accessed from Highway 131. Ed MacArthur represented Alpine Aggregates, LLC and accompanied Amy Yeldell of the Division on the inspection.

The mine identification sign and affected area boundary markers are in place and in compliance with Rule 3.1.12. A wire fence delineates the west permit boundary and the sign is fastened to the fence at the entrance. T-posts with 10 ft tall white PVC have been placed approximately every 100 ft to delineate permit boundaries and make it very easy to follow the irregular shape. The current mining operation is in the southeast portion of the permit boundary.

The access road is paved up to the office where the load scale is located. Active dust suppression was observed. A water truck would load up on site and make the rounds, however did not apply too much water as to create run off problems. Electricity is ran via a hard-line into the site. A backup generator is onsite for emergency use only. There is a small diesel take to run pumps and is in secondary containment and well marked.

A perimeter ditch surrounds the pit to carry water from the sump pump away. The pump is on a float so it only removes enough water to keep the pit floor solid but is careful to not create too large of a cone of depression that would affect water availability. The removed water is placed into the Yampa River Bypass, a community ditch and travels through the rest of the property to downstream users and maintains hydrologic balance. Ditch banks were stable and free of sedimentation or other debris.

Currently the pit is in 3 levels that get deeper as you move southeast. Once the desired floor depth is achieved that will become the permanent processing area and equipment currently stored on the northwest portion of the pit will be moved over. As mining progress through its phases material will be moved to the permanent processing area via conveyer belts. And older mined out areas will be reclaimed as available.

There are two main processing areas at this pit. A topsoil screen is located on the southeast portion and a crusher makes road base on the northwest portion of the pit. The site was active at the time of inspection, the crusher was operating and pit excavations were observed.

Several stockpiles exist within the pit. They are stored neatly according to size class and well marked with signs. Additional piles of topsoil are brought in from various offsite jobs and sold to the public or hauled off for later use. Piles of asphalt and concrete generated off-site were also observed. It will be crushed and screened then sent back off-site for future use. The operator has no intent of using this material for inert fill, it was indicated per the operator's county permit no material may be buried onsite. Overall the site is stable with no evidence of erosion. All slopes are no steeper than a 2:1.

Topsoil has been stripped in much of the mining phased areas and used as perimeter berms to denture sound and sight of view from the public. Both the stripped topsoil areas and the piles themselves are successfully reclaimed and flourishing. Hay is being grown in the stripped areas. Additional topsoil piles outline the current

pit boundary and have dense growth of perennial grasses. There is evidence of weed treatment as withered thistle was observed. No untreated weeds were seen on site.

Overall the site is very well organized and neat. No problems or violations were noted during this inspection.

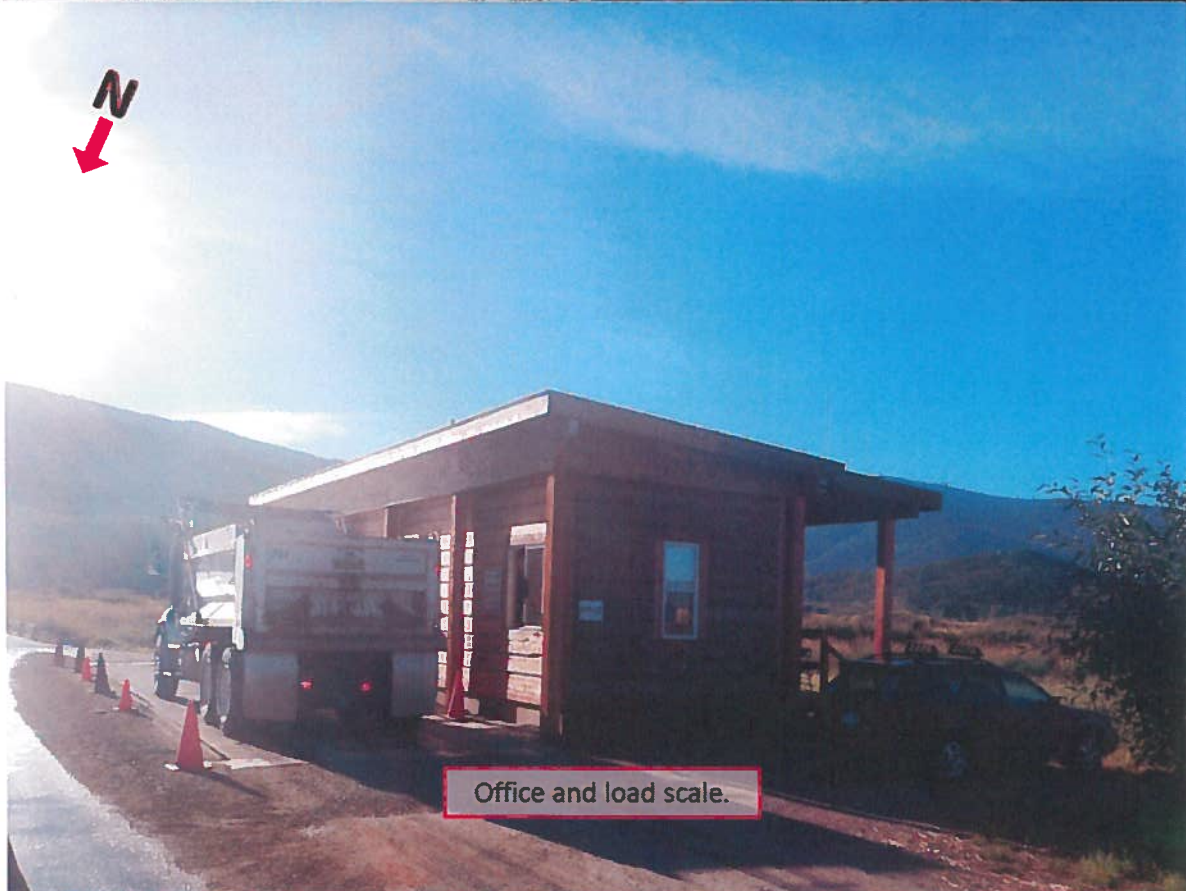
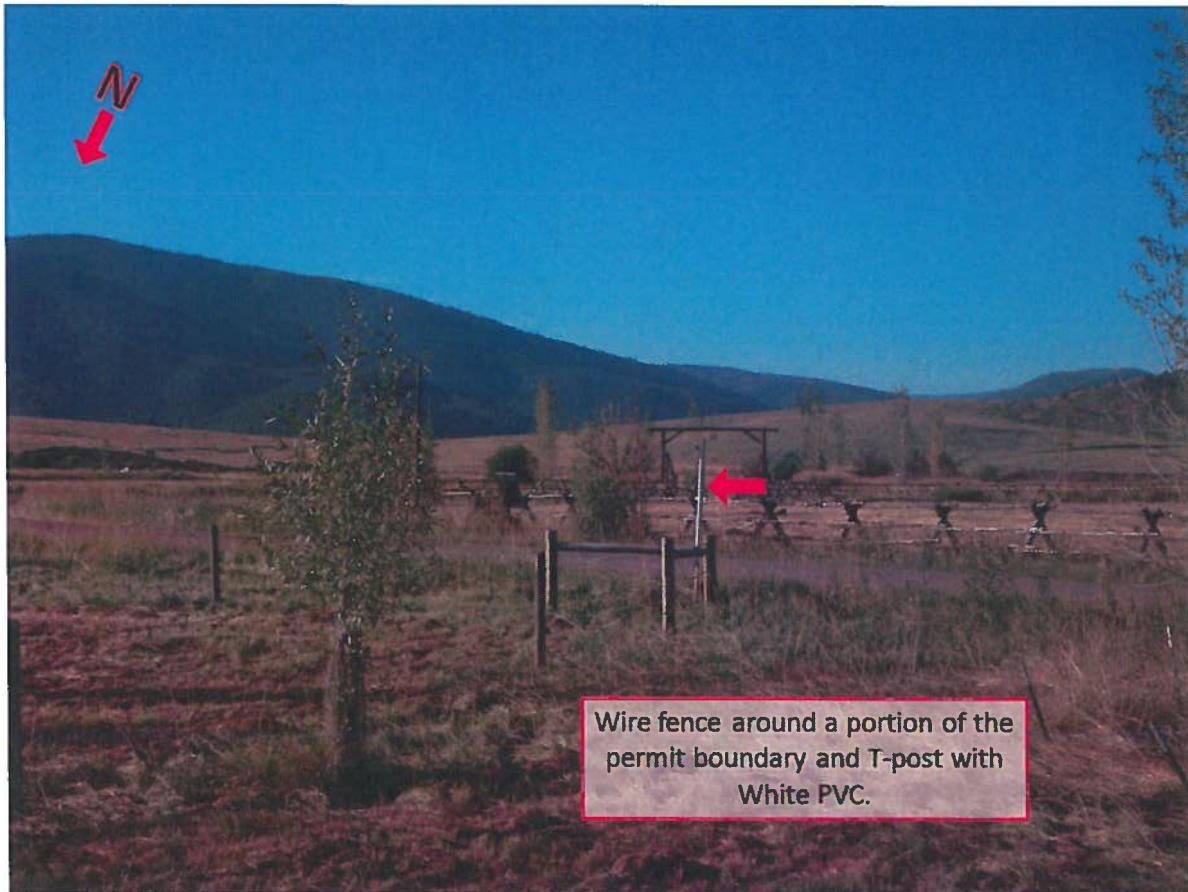
In an effort to ensure the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan the Division will be updating the reclamation cost estimate. A copy of the staff calculations will be sent under separate cover.

Responses to this inspection report should be directed to: Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at [amy.yeldell@state.co.us](mailto:amy.yeldell@state.co.us)

**PHOTOGRAPHS**



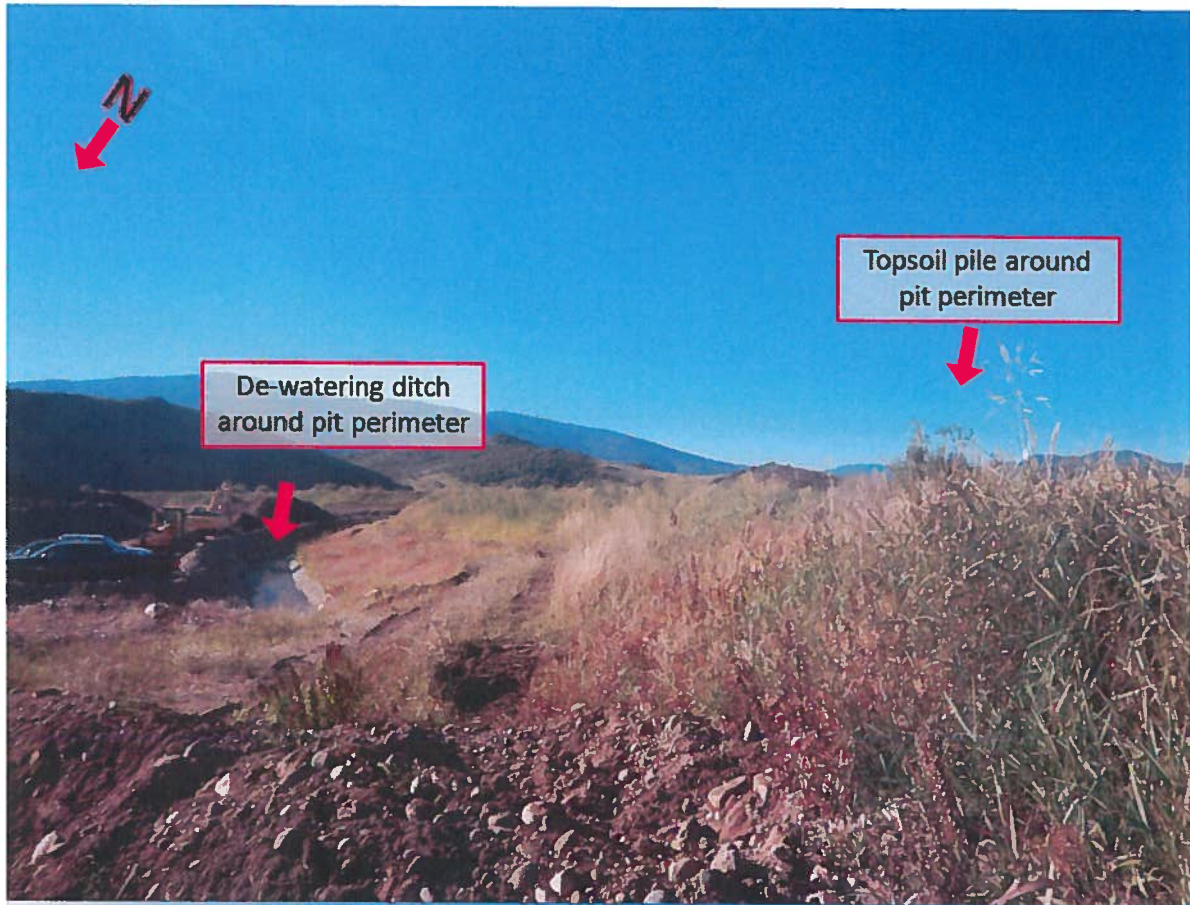




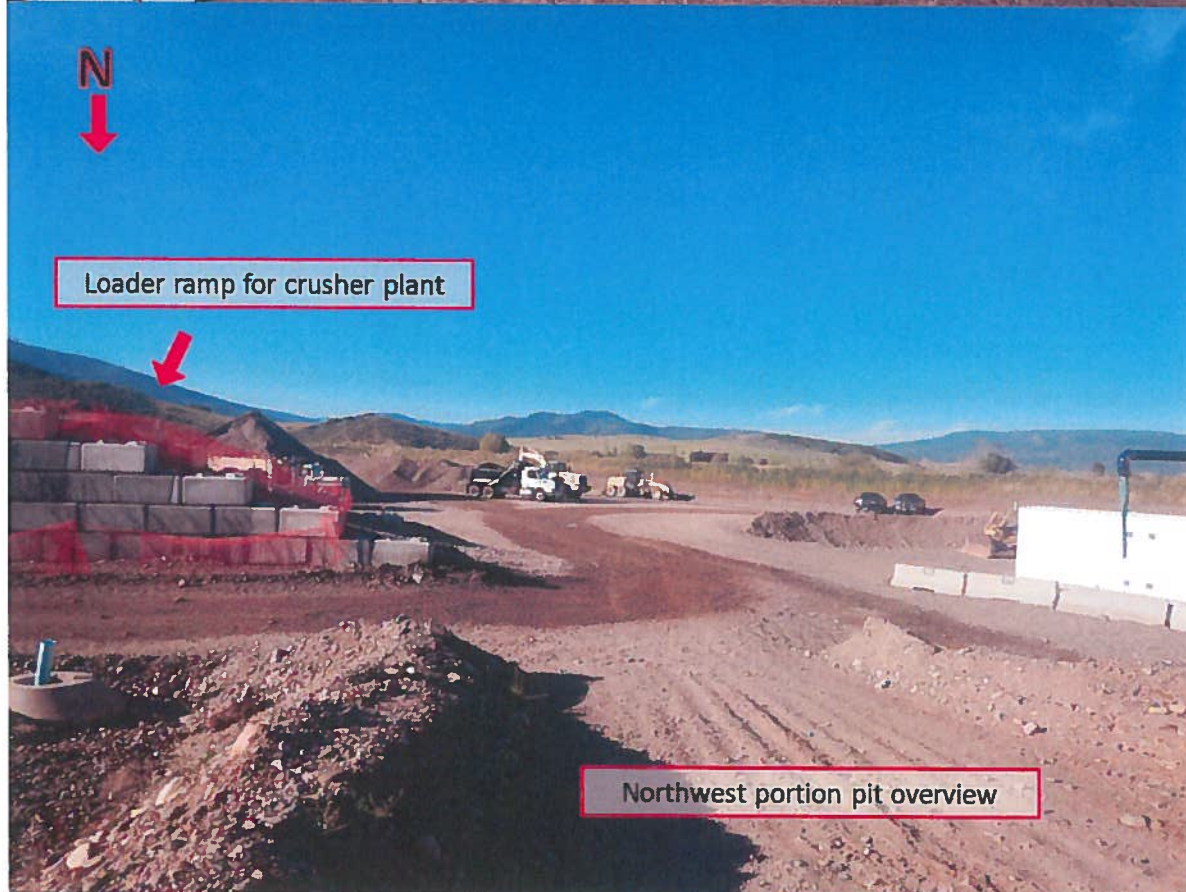
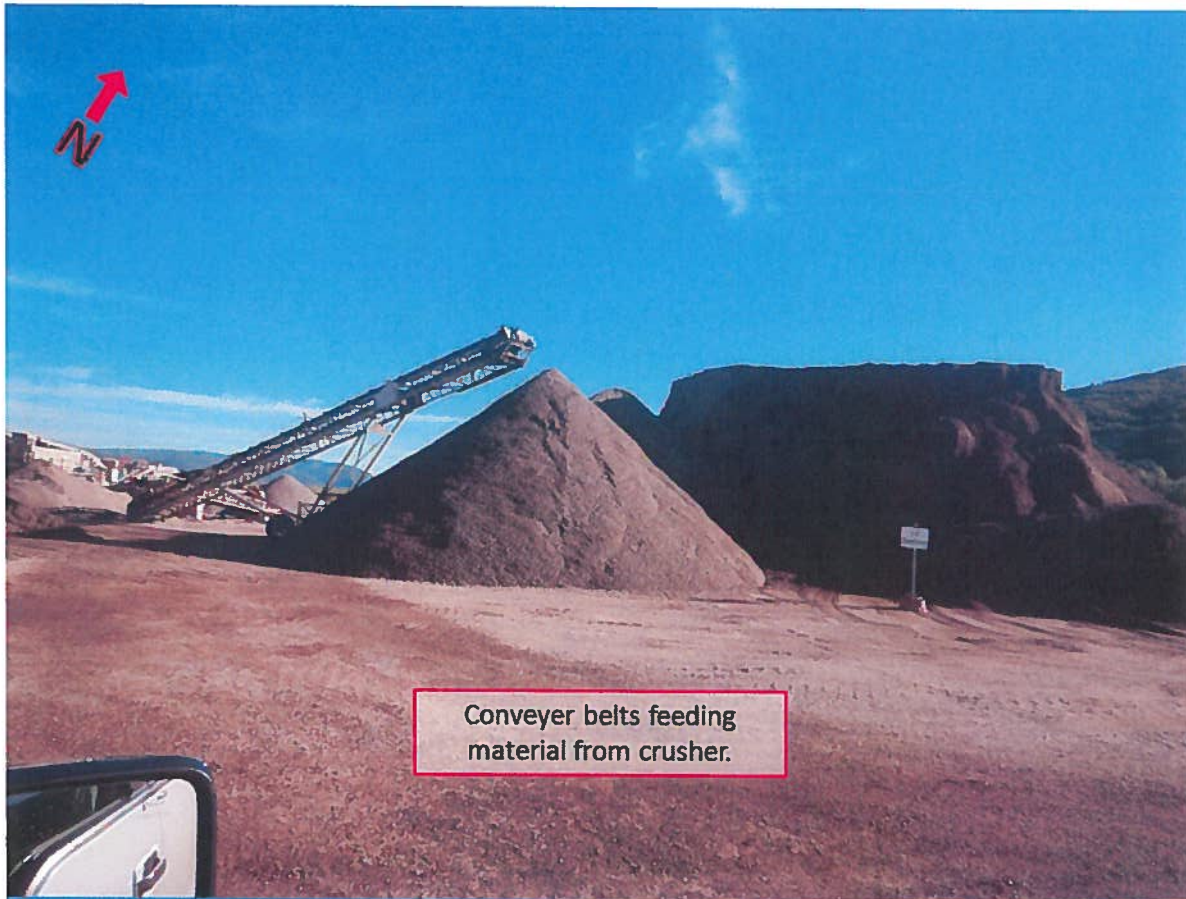




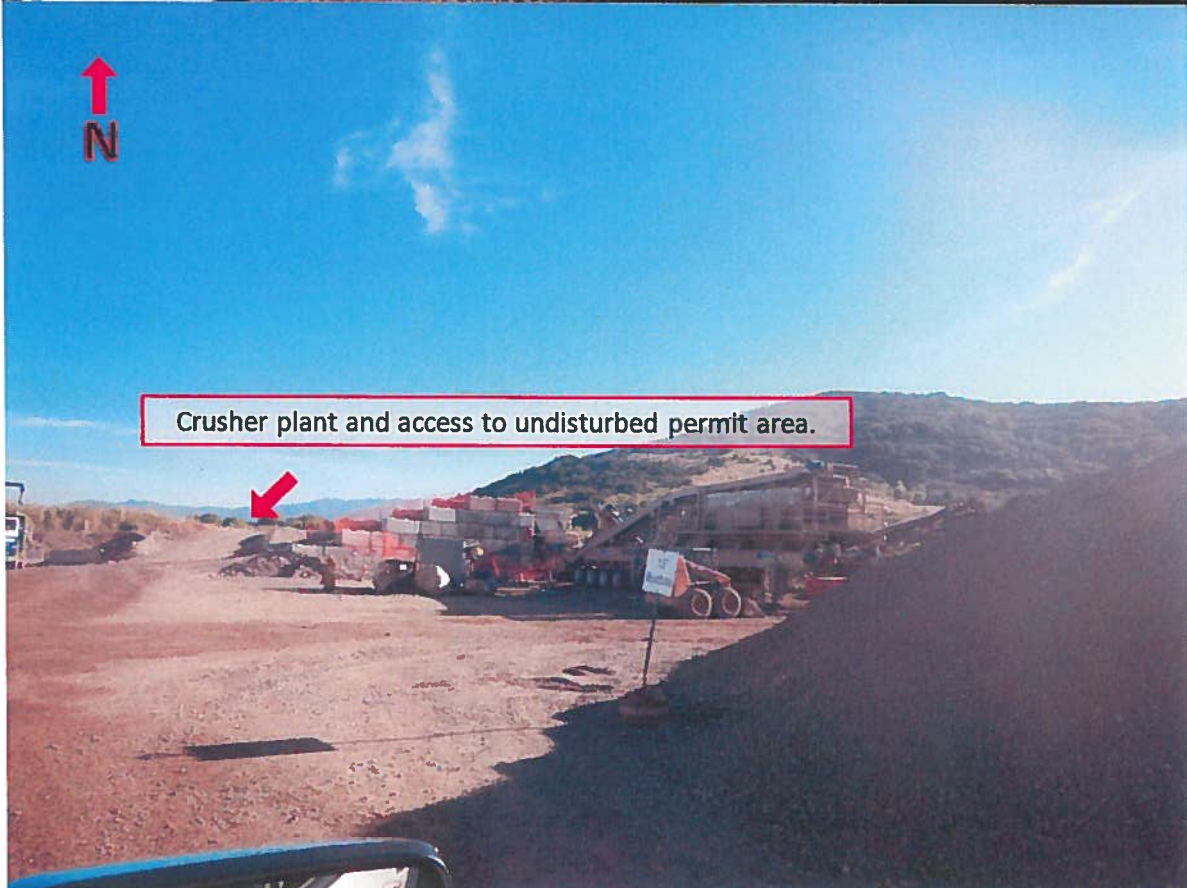
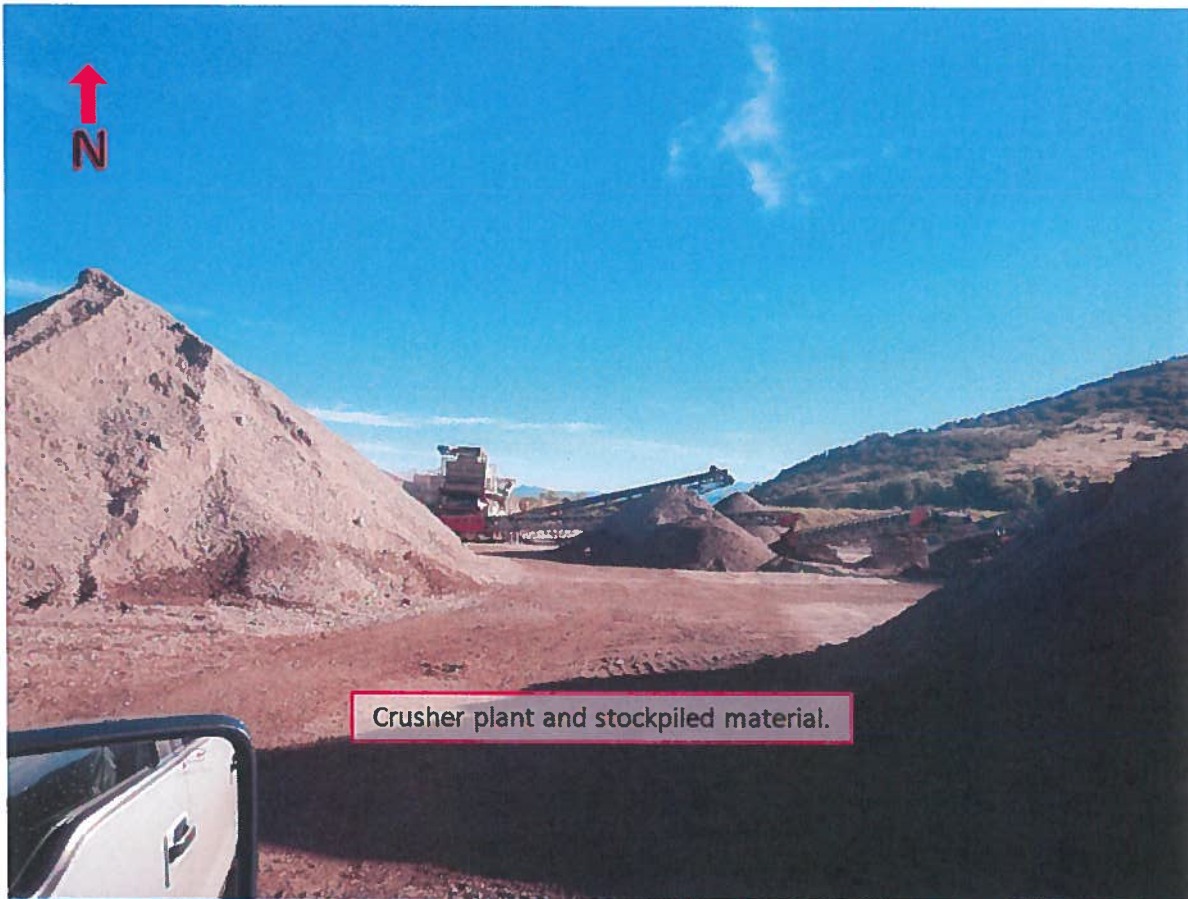




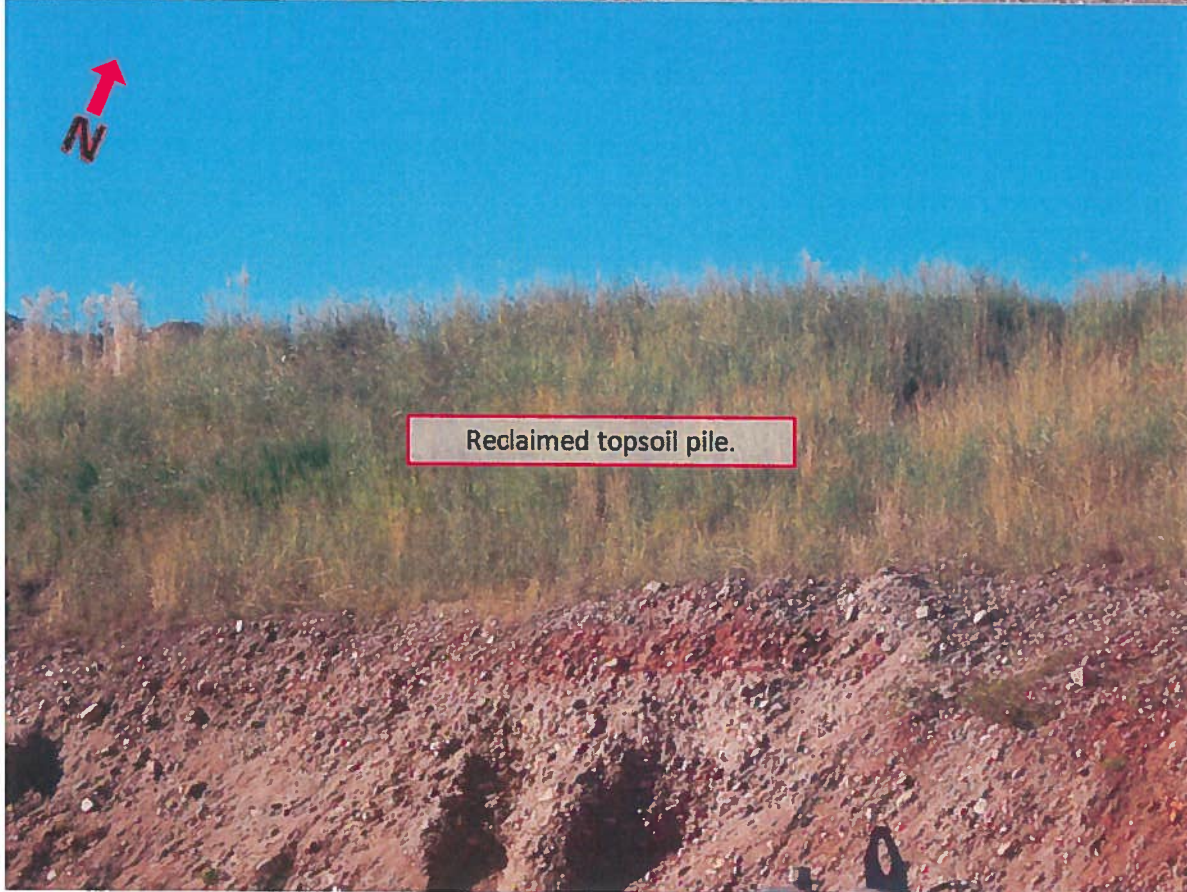
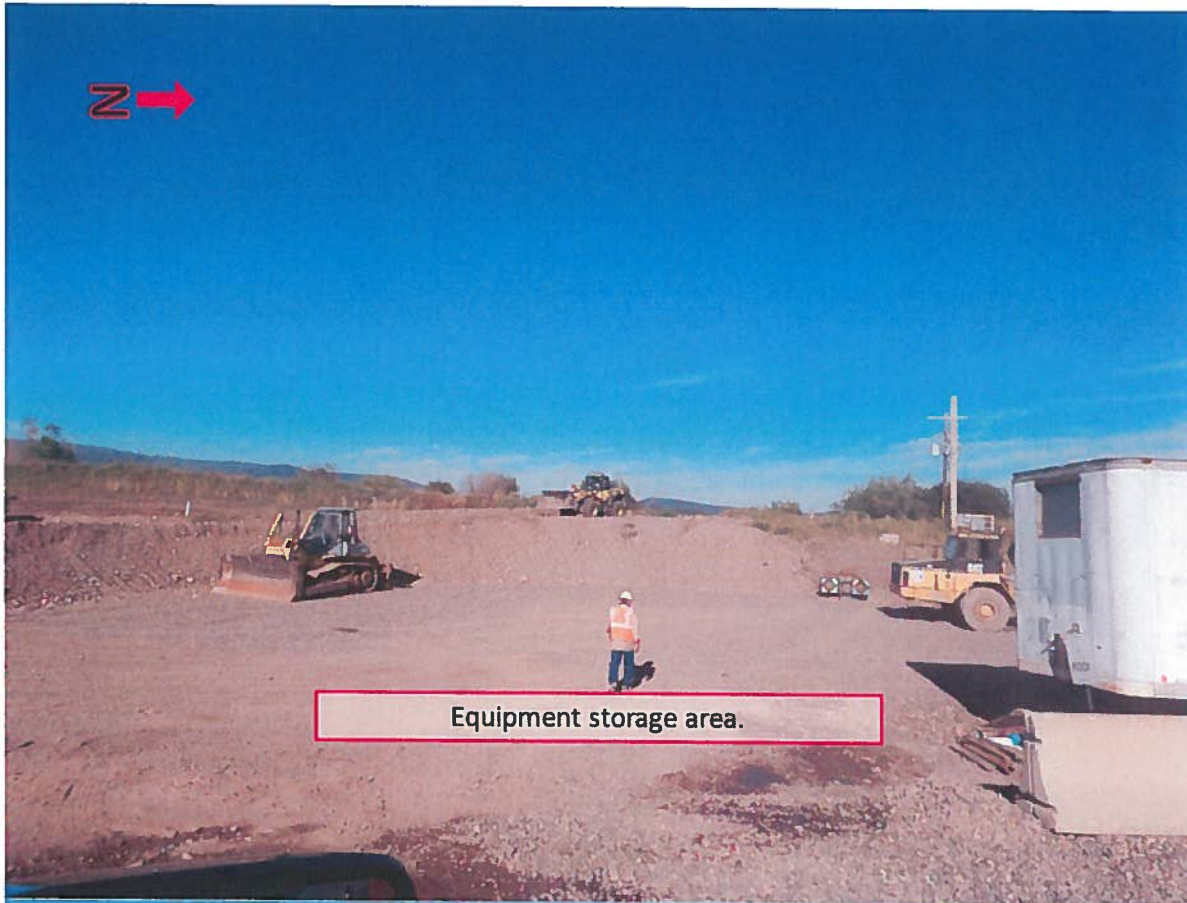














**Inspection Contact Address**

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Enclosure

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