



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 MICHAEL R. STYLER  
*Executive Director*  
 Division of Oil, Gas and Mining  
 JOHN R. BAZA  
*Division Director*

# Inspection Report

Permit Number:	<b>C0070011</b>
Inspection Type:	TECHNICAL
Inspection Date:	Wednesday, July 15, 2020
Start Date/Time:	7/15/2020 1:00:00 PM
End Date/Time:	7/15/2020 2:00:00 PM
Last Inspection:	Tuesday, June 9, 2020

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Charles Reynolds

Inspector: Priscilla Burton,  
 Weather: sun 90 F  
 InspectionID Report Number: 6717  
 Accepted by: SCHRISTE  
 7/22/2020

Permittee: **HIAWATHA COAL CO INC**  
 Operator: **HIAWATHA COAL CO INC**  
 Site: **HIAWATHA MINE**  
 Address: **PO BOX 1240, HUNTINGTON UT 84528**  
 County: **CARBON**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **INACTIVE**

Current Acreages		Mineral Ownership	Types of Operations
12,177.00	<b>Total Permitted</b>	<input checked="" type="checkbox"/> Federal	<input checked="" type="checkbox"/> Underground
197.00	<b>Total Disturbed</b>	<input checked="" type="checkbox"/> State	<input type="checkbox"/> Surface
97.50	<b>Phase I</b>	<input type="checkbox"/> County	<input type="checkbox"/> Loadout
93.27	<b>Phase II</b>	<input checked="" type="checkbox"/> Fee	<input type="checkbox"/> Processing
93.27	<b>Phase III</b>	<input type="checkbox"/> Other	<input type="checkbox"/> Reprocessing

**Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:**

I discussed gun range activity and the potential for lead contamination at the upper rail yard with Mr. Reynolds and Jim Staley, the gun contractor. Lead will be added as a parameter to the sampling program at the upper rail yard cover soils during final reclamation.

Exhibit II-4A shows the upper rail yard borrow location.

**Inspector's Signature: Priscilla Burton** Priscilla Burton  
 2020.07.22 13:47:41 -06'00' **Date** Wednesday, July 15, 2020  
 Priscilla Burton,  
 Inspector ID Number: 37



**Note:** This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining. telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **3. Topsoil**

The upper rail yard will be the source of 75,543 CY of borrow soil for reclamation of slurry pond #1 (MRP p. 2-38 and pp. 2-40-2-44) It is Reclamation Area 13 (RA 13). Lead is naturally occurring in all soils, but gun range activity could increase lead content in soil. Lead (PB2+) is not biodegraded and persists in the soil, where it may be taken up by plants\*. In high concentrations, lead interferes with photosynthesis and may affect soil organisms.\*\* Consequently, the MRP page 2-5 states that the effect of the gun range would be evaluated in 2020.

The gun range contract will expire December 31, 2020. Ordinarily 20 trainings a year with 8 - 10 people take place. Recently, COVID-19 has stopped trainings all together. Mr. Staley explained gun range practices to date:

1. Participants stand in the upper rail yard or on the access road above the upper rail yard.
2. Practice targets are placed outside the permit area 600 - 1,000 feet to the North East, at the base of a sandstone escarpment.
3. The bullets are lead with a copper sheath. The casings are brass or steel.
4. The bullets hit the target off the permit area and are fragmented or flattened on impact.
5. The casings land 10 - 15 feet away, in the upper rail yard.

During the inspection, many brass and steel casings were seen in the surface layer of soil. Plastic shot gun casings were also seen.


The MRP states that at final reclamation, the surface six inches (including coal fines and bullet casings) will be scraped aside and placed in the cut. The exposed soil will be sampled prior to its use as cover over mine waste (Chap. 2, p. 2-38).

During this inspection, it was agreed that no further sampling was required at this time, but that final reclamation sampling for the upper rail yard should include lead analysis. I will work with Mr. Reynolds to write an amendment to the reclamation plan that describes the required sampling, the additional parameter and analytical procedure, and the acceptable values for total lead in the cover soil.

\*Mouna Fahr, et. al. 2013. Effect of Lead on Root Growth. Fontiers in Plant Science. June 6, 2013. <https://www.frontiersin.org/articles/10.3389/fpls.2013.00175/full>, accessed 7/20/2020

\*\*European Commission DG ENV. E3. Heavy Metals in Waste, Final Report Project ENV.E.3/ETU/2000/0058  
[https://ec.europa.eu/environment/waste/studies/pdf/heavy\\_metalsreport.pdf](https://ec.europa.eu/environment/waste/studies/pdf/heavy_metalsreport.pdf) ,  
accessed 7/20/2020





Target location