

Hiawatha Coal Company

P.O. Box 1240
Huntington, UT 84528

Phone (801) 857-0399

June 21, 2021

Steve Christensen
Utah Division of Oil, Gas & Mining
1954 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Upper Rail Yard Lead Sampling, Hiawatha Coal Company, Hiawatha Mine, C/007/0011, Task #6293

Dear Mr. Christensen,

Enclosed are the clean copies of the amendment conditionally approved per Division letter dated April 5, 2021.

If you have any questions, please call me at (801) 857-0399 or email me at charles.reynolds@hiawathacoal.com.

Sincerely,



Charles Reynolds, PE
Mine Manager

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Hiawatha Coal Company, Inc.

Mine: Hiawatha Mine Complex

Permit Number: C/007/0011

Title: Upper Rail Yard Lead Sampling

Description, Include reason for application and timing required to implement:

To amend upper rail yard reclamation soil sampling to include an investigation for soil lead content and potential remediation.

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach one (1) review copy of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.


N. J. Finley _____
Print Name

N. J. Finley _____
Sign Name, Position, Date

Subscribed and sworn to before me this 15 day of March, 2021

Han Sen Chen _____
Notary Public

My commission Expires: _____, 2021 }
Attest: State of Utah } ss:
County of Salt Lake



<p>For Office Use Only:</p>	<p>Assigned Tracking Number:</p>	<p>Received by Oil, Gas & Mining</p>
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APPLICATION FOR COAL PERMIT PROCESSING

Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Hiawatha Coal Company, Inc.

Mine: Hiawatha Mine Complex

Permit Number: C/007/0011

Title: _____

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	pp. 2-5, 2-38, 2-44
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

Received by Oil, Gas & Mining

Lower Preparation Plant Area

The lower preparation plant area is approximately 3.93 acres located East of the reclaimed preparation plant area. Based on the soils information from the preparation plant in situ soils, it was estimated that approximately 40 inches of substitute topsoil, resulting in 24,300 cu yds, is available for substitute topsoil. This material will be used to reclaim the coal refuse areas (Slurry Pond No. 1, Refuse Pile No. 1, etc.).

Ridge Area

This area is located southwest of Slurry Pond No. 1, and consists of alluvial/colluvial sediments. The soil was sampled to a depth of 5 feet. It was assumed that the horizons may contain excessive stones or boulders, so the total available volume of material was reduced by 70%. This resulted in an estimated 12,300 cu yds of material available for substitute topsoil.

Currently, it is not anticipated that the ridge borrow area will be utilized, since there appears to be enough substitute soils within the Lower Preparation Plant and Upper Storage Yard areas to completely reclaim the Hiawatha area. In the event additional substitute topsoil is needed, the ridge area could be utilized.

Upper Rail Storage Yard

Based on the information in Appendix II-4, the Upper Rail Storage yard has an estimated 75,543 cu yds of substitute topsoil available for reclamation. This material will be used in conjunction with the Lower Preparation Plant borrow area to reclaim the disturbed areas in the Hiawatha area.

Total Available Topsoil

The total available substitute topsoil for the three areas is summarized below.

<u>Borrow Area</u>	<u>Borrow Depth (ft)</u>	<u>Substitute Topsoil Volume (cu yds)</u>
Lower Preparation Plant	3.33	24,300
Ridge Area	5	12,300
Upper Rail Storage Yard	varies	<u>75,543</u>
Total		112,143

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June 22, 2021

Division of Oil, Gas & Mining

Non-refuse areas include the remainder of the preparation plant area, affected areas, borrow areas and sediment ponds. These areas are shown on Exhibit II-4A, designated as areas RA-1, portions of which have been completed.

When all mining operations have ceased and the facilities will no longer be required, the facilities will be dismantled. After the facilities are dismantled, all foreign debris and materials will be removed and disposed of, as previously described, in preparation for final reclamation. Only selected portions of the preparation plant and upper storage yard areas will need to be backfilled as a part of the reclamation activity (see Preparation Plant In Situ Soils in Operation Plan). Therefore, prior to any post-mining reclamation activity which would significantly harm or destroy the topsoil resources in these areas, approximately the upper 1.5 feet of topsoil and appropriate subsoil materials will be removed from selected areas and temporarily stockpiled and protected. Prior to removal, a qualified consultant will design a soil sampling and lead analysis plan for the Division to review, prior to its implementation. The sampling and analysis plan will utilize incremental sampling methodology to meet the objective of a total lead value below the EPA lead contaminant clean up level of 400 ppm in resident soil (EPA Regional Screening Level Summary Table, November 2020, accessed through <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>). The design will include QA/QC methods, sampling methods, analytical methods, and screening/decision level for remediation (400 ppm lead or greater). The samples will be sent to a laboratory that has been accredited by the National Lead Laboratory Accreditation Program. Soil total lead analysis will follow EPA recommended methodology; Total Metals SW846 EPA Method 6020. The results will be submitted to the Division with the Annual Report and included in Appendix II-4. The soil to be temporarily stockpiled will be removed using both front end loaders and large track mounted dozers. The soil thus removed will be taken to a temporary stockpile, to be located near the North and Middle Fork road junction (as shown on Exhibit II-4A) and protected from the deleterious effects of erosion by installation of straw bale dikes or temporary runoff diversions around the perimeter of the stockpile.

After the appropriate areas have been backfilled or significantly regraded, the stockpiled topsoil will be redistributed. It is anticipated that only a portion of the total area will require these measures. The area southeast of the prep. plant and the area between the railroad spur and the Middle Fork haul road can achieve the final grade without significant regrading and without temporarily stockpiling the topsoil, as only the upper few inches of topsoil have been previously disturbed, the present grade is near the proposed final grade and the soils present have sufficient chemical and physical properties to support vegetative regrowth and enhance reclamation. Laboratory tests (Appendix II-4) substantiate that the soil materials in the preparation plant area are adequate (both chemically and physically) to support vegetation and that no additional soils will need to be added to the area to enhance reclamation.

When the final grade has been achieved with a stable area having positive drainage, then the area will be prepared for seeding. Initially the regraded surface will be ripped to a depth of 18 to 24 inches. Stockpiled soil material will then be redistributed and disced along the contour. Next, fertilizer and then seed will be applied by either broadcasting, drilling or hydroseeding. Mulch will be applied at the rate of 1 ton per acre and will be either crimp-disced into the soil or bound to the soil with a binding agent added in the hydroseed mixture.

Slurry Ponds and Refuse Embankments Area

Where practical, U. S. Fuel Company is contemporaneously regrading the slurry ponds and refuse piles. These areas are being covered with the soil from substitute soil borrow sites east of the preparation plant site and slurry ponds. Because of the volume of slurry and refuse, regrading can not be done to original contour. However, the embankment slopes will be made less steep in order to reduce erosion. Structural foundations will be covered with available backfill material.

Sedimentation ponds and diversion structures will be removed and backfilled after vegetation is established on the reclaimed slurry ponds and refuse piles and after cleanup of any contributing affected areas. Topsoil has been salvaged for the sedimentation ponds. Once the sediment ponds are regraded, the stockpiled topsoil will be redistributed.

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June 22, 2021

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2-38

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Reclamation of Lower Preparation Plant Borrow Area

U. S. Fuel Company proposes to remove approximately 24,300 cubic yards of substitute topsoil material from the Lower Preparation Plant Borrow Area by excavating the 3.93 acre area to a depth of approximately 40 inches. Based on the test pits and analyses (Appendix II-4), this will leave approximately 20 inches of the C-1 soil horizon in place for revegetation of the pit area.

After removal of the borrow material, the pit will be prepared for reclamation by regrading and shaping the area to drain. Since this pit is within the existing disturbed area, runoff will be collected in existing ditch DD-12 and carried to Slurry Pond 5A for final treatment (see Exhibit VII-18A).

To eliminate the deleterious effects of excessive compaction created by the machinery used to remove the substitute topsoil material, to promote root penetration, to aerate the soil, and to increase the permeability, the in-situ soil will be ripped, using a large track-mounted dozer. First, one ton per acre of organic material such as hay or sewer sludge will be applied. Then the soil will be ripped along the contour to a depth of 18 to 24 inches.

Immediately prior to the application of nutrients and soil amendments, a minimum of two samples will be collected, composited and submitted for laboratory analyses to identify any fertility deficiencies and to provide a final basis for the application of nutrients and soil amendments. Again, this will ensure that reclamation efforts are based on soil conditions at the time of reclamation.

Reclamation of Upper Rail Storage Yard Borrow Area

HCC proposes to remove approximately 75,543 cubic yards of substitute topsoil material from the Upper Rail Storage Yard Borrow Area. This material will be utilized to complete reclamation on the No. 1 Refuse Pile / Slurry Pond and track areas.

As noted in Appendix II-4, the area is covered with 3"-90" of coal and coal waste material. This material will be scraped off and placed along the toe of the cut slope to the south. Once the required amount of topsoil is removed, the coal and coal waste material will be covered with a minimum of 24" of soil from the pit area. The area will be graded to drain to Sediment Pond D003, and reseeded according to the plan.

Since this area is within the existing disturbed boundary, runoff will continue to be treated in Sediment Pond D003, as it presently is. This can be accomplished by starting the coal waste and soil removal on the east end (near the pond) and working to the west. In this manner, the area will slope to the sediment pond at all times.

To eliminate the deleterious effects of compaction, to promote root penetration, to aerate the soil and to increase permeability, the in situ soil remaining in the borrow area will be ripped using a large track mounted dozer. First, one ton per acre of organic material such as straw or hay will be applied. Then, the soils will be ripped along the contour to a depth of 18 to 24 inches. The topsoil temporarily stockpiled (as described on pg. 2-38) will then be re-applied.

Immediately prior to the application of nutrients and soil amendments, a minimum of six soil samples will be collected, composited and submitted to a laboratory for analyses and the laboratory test results analyzed to identify any fertility deficiencies and to provide a final basis for the application of nutrients and soil amendments. This will ensure that reclamation designs are based on the soil conditions at the time of reclamation.