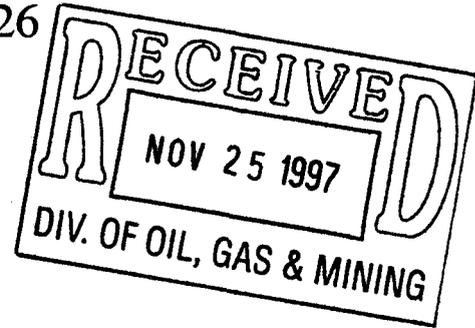


Horizon Coal Corporation
P.O. Box 599
Helper, Utah 84526



November 25, 1997

Mr. Joseph C. Helfrich
Permit Supervisor
Utah Division of Oil, Gas and Mining
1594 West North Temple
Suite 1210
Salt Lake City, Utah 84114-5801

ACT/007/020 #5
NOV file
Tony Joe

Subject: Response to NOV N97-26-7-1, Channel Configuration,
Horizon Coal Company, Horizon Mine

9761

Dear Mr. Helfrich:

The following is submitted in response to your letter of November 7, 1997 regarding the above subject. The letter outlined a deficiency in the design of the Jewkes Creek realignment as follows:

R645-301-774.314. 1) Redesign the reclamation riprap and check dams to be stable for flow velocities resulting from the flow equal to the maximum channel capacity above and below the site, and 2) Provide a design for the transition area between the reclamation channel and the channel reconstructed by the county.

To address these deficiencies, we herewith submit the following information:

- Calculations on the attached pages 25 through 31. These should be *added* at the end of the reclamation hydrology calculations in Appendix 7-4 of the Horizon M&RP. These calculations address the first above-noted deficiency and indicate that the reclamation channels as designed will adequately convey a flow equal to the capacity of the adjacent natural stream channels, with the reclamation channels remaining stable and conditions being nonerosive during such an event.
- Calculations on the attached pages 16 through 18m. These should *replace* pages 16 through 18 of the operational hydrology calculations in Appendix 7-4 of the Horizon M&RP. These calculations address the second above-noted deficiency and indicate that a riprap key will be installed in the channel downstream from culvert UC-1 at the change in slope. The purpose of this key will be to prevent headcutting in the channel. The calculations also provide

Mr. Joseph C. Helfrich
November 25, 1997
Page 2

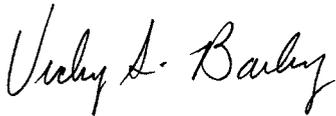
design information concerning the realigned channel downstream from culvert UC-1.

- Revised pages 7-54, 7-63, and 7-67. The first of these pages present revisions that address the second above-mentioned deficiency. The second two pages present revisions that address the first above-mentioned deficiency.

In addition to the information discussed above, we have also attached revisions to pages 6 through 8 of the reclamation hydrology calculations of Appendix 7-4. These latter revisions were necessitated to correct the Manning's roughness coefficient which had been previously assumed in the design of reclamation channel RD-1. It was previously assumed that the roughness coefficient would be 0.032. However, since this channel will be lined with riprap that has a median diameter of 6 inches, the roughness coefficient should have been 0.035. These pages correct this assumption.

Please contact us if you have questions regarding this submittal.

Sincerely,



Vicky S. Bailey, Permitting Consultant
EarthFax Engineering, Inc.

APPLICATION FOR PERMIT PROCESSING

Permit Change <input checked="" type="checkbox"/>	New Permit <input type="checkbox"/>	Renewal <input type="checkbox"/>	Transfer <input type="checkbox"/>	Exploration <input type="checkbox"/>	Bond Release <input type="checkbox"/>	Permit Number: ACT/007/020
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Title of Proposal: Response to the Hydrology for NOV N97-26-7-1 and a copy of Table for Appendix 8-1.

Mine: HORIZON

Permittee: HORIZON COAL

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

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.

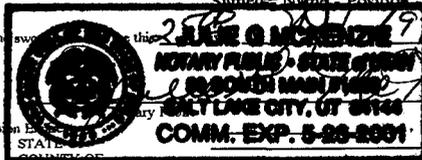
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV # <u>N97-26-7-1</u>
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

Attach 6 complete copies of the application.

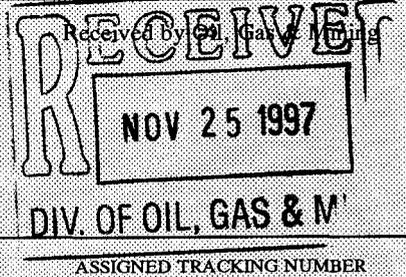
I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Larry A. Jones V.P. Mining
Signature Name Position Date

Subscribed and sworn to before me this _____ day of _____, 1997.



My Commission Expires _____
Attest: _____)
COUNTY OF _____)



Application for Permit Change Detailed Schedule of Changes to the Permit

Title of Change: Response to the Hydrology for N97-26-7-1 and Corrected Table for Appendix 8-1.	Permit Number: ACT/007/020
	Mine: Horizon Mine
	Permittee: Horizon Coal Corporation

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit change. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the exiting mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 7, Pages 7-54, 7-63 and 7-67
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-4, Reclamation Hydrology Calculations - Pages 25 through 31
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-4, Operational Hydrology Calculations - Pages 16 through 18m
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7-4, Reclamation Hydrology Calculations - Pages 6 through 8
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 8-1, Select Soil Analytical Data and the associated lab data
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

November 25, 1997