

## OGMCOAL - Fwd: 3rd Qtr. 2011 Spoils & Impoundment Inspection Report

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**From:** Karl Houskeeper  
**To:** OGMCOAL  
**Date:** 10/11/2011 8:34 AM  
**Subject:** Fwd: 3rd Qtr. 2011 Spoils & Impoundment Inspection Report  
**Attachments:** 3rd Qtr 2011 Spoils and Pond Insp..pdf; IMG-20111009-00035.jpg; IMG-20111009-00038.jpg

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>>> Kirk Nicholes <knicholes@altoncoal.com> 10/10/2011 12:43 PM >>>

Karl,

Here's the 3<sup>rd</sup> quarter reports. Next time your down, you may want to consider a different travel route. SR-14 is closed due to a slide, it looks like they lost a good chunk of pavement in both lanes about 7 miles up Cedar Canyon.

Thank You

Kirk Nicholes

Environmental Specialist

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INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/025/0005	Report Date	09/30/11
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Excess	Pile Name	Coal Hollow Mine Excess Spoil Pile	
Spoil Pile or Refuse Pile Identification	Pile Number		
	MSHA Mine ID Number	42-02519	
Inspection Date	26-Sep-11		
Inspected By	Dan W. Guy, P.E.		
Reason for Inspection - Quarterly Inspection <small>(Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)</small>		Attachments to Report? No	
<b>Field Evaluation</b>			
<i>No significant problems with the waste site were observed during the 2nd quarter 2011.</i>			
1. Foundation preparation, including the removal of all organic material and topsoil. Based on observation and discussion with the operator, the foundation preparation has been completed according to the approved plan.			
2. Placement of underdrains and protective filter systems. N/A - There are no underdrains or other filter systems associated with this pile.			
3. Installation of final surface drainage systems. The present surface drainage and diversion systems are operational, but are considered temporary. Final systems will be placed when the pile reaches the elevation to allow positive drainage.			
4. Placement and compaction of fill materials. Placement and compaction of fill material appears to be in accordance with the approved plan, based on evaluation of compaction test results, site observation and discussion with the operator. A small amount of previously removed wet material is being temporarily stored at the upper end of the pile until it dries sufficiently to allow for proper placement and compaction.			
5. Final grading and revegetation of fill. N/A - The fill is in the early stage of development. No final grading or revegetation has taken place.			

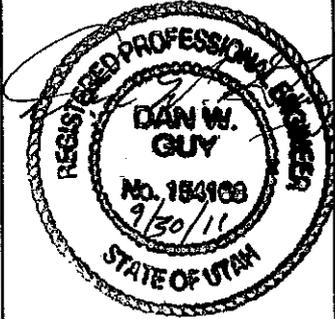
6. Appearances of instability, structural weakness, and other hazardous conditions.

N/A - There were no appearances of instability, structural weakness or other hazardous conditions noted during this inspection. Recent compaction tests show adequate compaction, indicating 86% to 98% compaction. The pile is being constructed at different levels to aid in the compaction.

7. Other Comments. Describe any changes in geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and Minimum lifts of materials placed in the pile, elevations of active benches, total and remaining capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

As noted above, the pile is in the early stage of development. Only a very small amount of material has not yet been compacted in place due to wet conditions, and the diversion carrying pile runoff to Sediment Pond No. 3 is still temporary. The pile appears stable and is being constructed in accordance with the approved plan, with the above noted temporary exceptions.

**Certification Statement**



I hereby certify that: I am experienced in the construction of earth and rock fills: I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure: that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By: Dan W. Guy, Registered Profession Engineer, State of Utah**

(Full Name and Title)

Signature

*Dan W. Guy* Date: 9/30/11

<b>IMPOUNDMENT INSPECTION AND REPORT</b>			
<b>Permit Number</b>	C/025/0005	<b>Report Date</b>	09/30/11
<b>Mine Name</b>	Coal Hollow Mine		
<b>Company Name</b>	Alton Coal Development, LLC		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	Pond 1	
	<b>Impoundment Number</b>	Pond 1	
	<b>MSHA Mine ID Number</b>	42-02519	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	26-Sep-11		
<b>Inspected By</b>	Dan W. Guy, P. E. (Accompanied by B. Kirk Nicholes)		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.		
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b> None Noted.			
Required for an impoundment which functions as a SEDIMENTATION POND.	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</b> Sediment Storage Capacity: 60% Elevation: 1.26' 100% Elevation: 2.03'  The pond contained approximately 18" of water. The sediment marker has been installed. Field observation shows the sediment level to be well below the cleanout elevation.		
	<b>3. Principle and emergency spillway elevations.</b> Principle and Emergency Spillway Elevation: 6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 3.1 Acre-Feet (Elev. 6920.00') Required runoff storage: 2.57 Acre-Feet		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslooes of embankments, etc.

The water level is approximately at elevation 6912.5. Rip-rap has been placed on both inlets. The outlet culvert, which serves as both principle and emergency outlet, is open and functional. There is no discharge from the pond.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Changes noted since the last inspection include a decrease in the water level, installation of the sediment marker, placement of concrete barriers and completion of some grading above the pond.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By: Dan W. Guy, P.E.**

(Full Name and Title)

Signature:

*Dan W. Guy* Date: 9/30/11

<b>IMPOUNDMENT INSPECTION AND REPORT</b>			
<b>Permit Number</b>	C/025/0005	<b>Report Date</b>	09/30/11
<b>Mine Name</b>	Coal Hollow Mine		
<b>Company Name</b>	Alton Coal Development, LLC		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	Pond 1B	
	<b>Impoundment Number</b>	Pond 1B	
	<b>MSHA Mine ID Number</b>	42-02519	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	26-Sep-11		
<b>Inspected By</b>	Dan W. Guy, P.E. (Accompanied by B. Kirk Nicholes)		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:            60 % Elevation: 6.00'            100% Elevation: 8.08'</p> <p>The pond contained approximately 2' of water. The sediment marker has been installed. Field observation shows the sediment level to be well below the cleanout elevation.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6906 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.4'5)</p> <p>Required runoff storage: 0.50 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

The water level is approximately at elevation 6896. There are 2 inlets to the pond - both have been rip-rapped. Both inlets appears stable and are functioning properly. The outlet is also open and functional.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted changes during the 3rd quarter would be a decrease in the depth of the water and the installation of the sediment marker.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By: Dan W. Guy, P.E.**

(Full Name and Title)

Signature: *Dan W. Guy* Date: 9/30/11

<b>IMPOUNDMENT INSPECTION AND REPORT</b>			
<b>Permit Number</b>	C/025/0005	<b>Report Date</b>	09/30/11
<b>Mine Name</b>	Coal Hollow Mine		
<b>Company Name</b>	Alton Coal Development, LLC		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	Pond 2	
	<b>Impoundment Number</b>	Pond 2	
	<b>MSHA Mine ID Number</b>	42-02519	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	26-Sep-11		
<b>Inspected By</b>	Dan W. Guy, P.E. (Accompanied by B. Kirk Nicholes)		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)			
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:            60% Elevation: 3.07'            100% Elevation: 4.72'</p> <p>The pond contained approximately 3.5' of water. The sediment marker has been installed, and field observation shows the sediment level to be well below the cleanout elevation.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways)            Total volume of pond at Spillway: 2.675 Acre-Feet (Elev. 6901.09')            Required runoff storage: 1.70 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

The water level is approximately at elevation 6894.5. Both pond inlets have been rip-rapped. The outlet is open and functional. No other problems were noted during the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

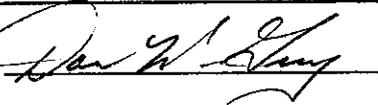
Changes noted during the 3rd quarter include a slight increase in water level and the installation of the sediment marker.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By: Dan W. Guy, P.E.**

(Full Name and Title)

Signature: 

Date: 9/30/11

<b>IMPOUNDMENT INSPECTION AND REPORT</b>			
<b>Permit Number</b>	C/025/0005	<b>Report Date</b>	09/30/11
<b>Mine Name</b>	Coal Hollow Mine		
<b>Company Name</b>	Alton Coal Development, LLC		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	Pond 3	
	<b>Impoundment Number</b>	Pond 3	
	<b>MSHA Mine ID Number</b>	42-02519	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	26-Sep-11		
<b>Inspected By</b>	Dan W. Guy, P.E. (Accompanied by B. Kirk Nicholes)		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No instability of the embankment or hazardous condition was noted during the inspection.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:            60 % Elevation: 2.17'            100% Elevation: 2.82'</p> <p>The pond contained approximately 3" of water. The sediment marker has been installed, and field observation shows the sediment level to be well below the cleanout elevation.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 7.98 Acre-Feet (Elev. 6811.00')</p> <p>Required runoff storage: 6.72 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond contained only a few inches of water. The upper pond inlet shows some minor erosion, but it is within the pond level and shows no instability - this is a temporary inlet. The open-channel spillway has been rebuilt and rip-rapped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The main changes in the 3rd quarter include a decrease in the water level, the installation of the sediment marker and the rebuilt open-channel spillway.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By: Dan W. Guy, P.E.**

(Full Name and Title)

Signature: *Dan W. Guy* Date: 9/30/11



