

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
 Telephone (801) 538-5340 facsimile (801) 359-3940 TTY (801) 538-7458  
[www.ogm.utah.gov](http://www.ogm.utah.gov)



**Quarterly Inspection Form - Refuse Disposal Areas**  
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/025/0005 Inspection Date : 08/20/15  
 Mine Name : Coal Hollow Project Quarter / Year : 3rd / 2015  
 Mine Operator (Permittee) : Alton Coal Development Inspector Name : Dan W. Guy  
 MSHA ID # : 42-02519 Inspector Signature : *Dan W. Guy*  
 Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
The Temporary Excess Spoil has been removed to backfill pit.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # \_\_\_\_\_ Elevation of Active Benches : 6918  
 3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. / No. Slope / So. Slope /  
 4. Total storage capacity: 8,600,000 cy Remaining storage capacity 5,988,000 cy Volume placed during year : 0  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material):  
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed):  
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure? (If YES, specify extent, location, and abatement/extinguishment of such fires):  
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow):  
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions:  
No instability noted. / Minor erosion on slopes in subsoil.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

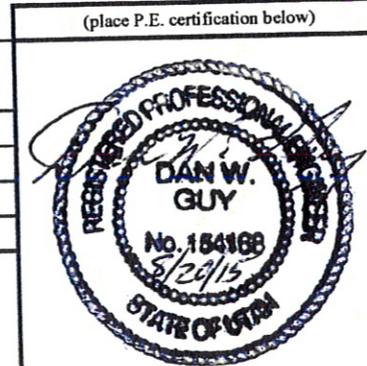
Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Do slope erosion problems exist ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	<u>Minor, as noted above.</u>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Erosion of Toe ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	<u>Minor on south. Ditch filled with dead trees to reduce erosion.</u>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	

Could failure of structure create an impoundment (provide description)? Possible small impoundment in swale below. Any impoundment would not present a major safety hazard due to location.

Are design standards established within the mining and reclamation plan for the disposal facility being met?  
Yes

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

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 structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds 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.



IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	09/17/15
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	17-Sep-15		
Inspected By	B. Kirk Nicholes		
Reason for Inspection (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>Some erosion inside pond on the north bank where berm has been removed.</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: 1.26'            100% Elevation: 2.03'</p> <p>The pond was discharging at time of inspection, water elevation 6920.0'. The sediment marker is in place. Sediment has formed a delta at the south inlet and the level is estimated to be at approximately the 60% elevation of 6912.0'.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 3.1 Acre-Feet (Elev. 6920.00')</p> <p>Required runoff storage: 2.57 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 outlooses of embankments, etc.

The water level is at the 6920.0' elevation and is discharging at time of inspection, Rip-rap has been placed on both inlets. The outlet culvert, which serves as both principle and emergency outlet, is open and functional. Aberm has been removed from the upper side of the pond, allowing previously diverted runoff to run over the inside slope and cause som erosion within the pond. Concrete barriers have been installed inplace of this berm for safety. It is planned to place a new ditch along the upper side of the pond to divert all inflow to the west side away from the outlet area upon DOGM's approval of the design. The discharge was sampled for UPDES parameters. Field pH was 7.9 and flow 7.2 gpm.

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 in the structure during the 3rd quarter, other than those listed in No.4 above, was an increase in the depth of the water due to a recent storm event and an increase in sediment level listed in No. 2 above.

<b>Certification Statement</b>	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.	
	<b>By:</b>	
	(Full Name and Title)	
	Signature: <u>B. K. Z. Alkhalaf</u>	Date: <u>9/17/15</u>

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	09/17/2015
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	17-Sep-15		
Inspected By	B. Kirk Nicholes		
Reason for Inspection (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: 6900.00 (6.00')  100% Elevation: 6902.08 (8.08')</p> <p>The pond contained approximately 5.0' of water. The sediment marker is in place. Field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6897.0.</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. 6906.45)</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 outslopes of embankments, etc.

The water level is approximately at elevation 6902.0. There are 2 inlets to the pond - both have been rip-rapped. Both inlets appear stable and are functioning properly. The outlet is also open and functional. There is some additional sediment accumulation in the NW inlet.

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 change to the pond since the last inspection is an increase in the water level and additional sediment as noted above.

**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:**

(Full Name and Title)

Signature: B. K. White Date: 9/17/15

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	Report Date 09/17/2015
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 2
	Impoundment Number	Pond 2
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-15	
Inspected By	B. Kirk Nicholes	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition. N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.		
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment. Sediment Storage Capacity: 60 % Elevation: 6894.07 (3.07') 100% Elevation: 6895.72 (4.72')  The pond contained approximately 6.5' of water. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6891.	
	3. Principle and emergency spillway elevations. 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	

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 outslopes of embankments, etc.

The water level is approximately at elevation 6897.5. The single pond inlet is rip-rapped and has minor sediment accumulation. 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.

The only change in the pond since the last inspection is the increase in water level from recent storms.

**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:**

(Full Name and Title)

Signature: *B. K. Smith* Date: 9/17/15

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	09/17/2015
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	17-Sep-15		
Inspected By	B. Kirk Nicholes		
Reason for Inspection (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. There is a small erosion scarp on the inside top of the dam on the NW corner above the high water or spillway level. It doesn't appear to present a hazard to the dam.</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: 6807.80 (7.74')  100% Elevation: 6808.50 (8.44')</p> <p>The pond was discharging at time of inspections. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate average sediment elevation is 6801.0.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 12.96 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 water level is approximately at elevation 6811.0 and discharging at time of inspection. Permanent Inlet Ditch 4 has been rip-rapped and is functional. The open-channel spillway has been rebuilt and rip-rapped. The discharge was sampled for UPDES parameters. Field pH was 8.4 and flow 20 gpm.

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 change since the last inspection is the increase in the water level and the small erosion scarp noted above.

**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:**

(Full Name and Title)

Signature: B. K. [Signature] Date: 9/17/15

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	09/17/2015
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	17-Sep-15		
Inspected By	B. Kirk Nicholes		
Reason for Inspection (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: 6832.0 (3.78')  100% Elevation: 6833.0 (4.82')</p> <p>The pond contained average 3.0' of water . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6828.5.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')</p> <p>Required runoff storage: 2.10 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 average water elevation is approximately 6831.5. The open-channel spillway is in place 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 only change since the last inspection is the increase in the water level from recent storm events.

**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:**

(Full Name and Title)

Signature: B. Keith Spivey Date: 9/17/15